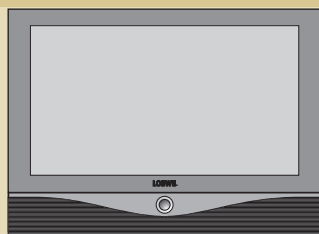


Operating Instructions.



- Articos 55 HD

TV.



233-31599.021

LOEWE.

Contents

Welcome	3	Operation of additional equipment	19-25
Remote operation – TV functions	4	Video mode	19
Connections	5	IR-Link	21
Setup	6-7	Home Multi Media	21
Installation possibilities	6	DVD player	22
For your safety...	6	Digital output	22
Lamp information	7	Digital input/output	22
Setup and cleaning	7	Connecting Loewe sound systems	23
Initial installation	8	Loewe sound systems Concertos and Articos	24
Batteries	8	Loewe sound systems Certos / Concertos and Articos	26-27
Connection	8	Viewing angle range of rotation	28
Switching on	8	Displaying PC images	29
Daily handling	9-12	What to do when ...	30-31
Remote control - Overview	9	Technical data	32
Menu functions in TV	9	Available accessories	33
Rotating the TV set	9	Secret code	33
Setting the remote control	10	Service addresses	34
Switching on/off	11	Codelist	35-40
Changing channels	11		
General menu operation	12		
Adjusting the sound	12		
Adjusting the picture	12		
Operation on the TV set	12		
Modes of operation	13-17		
TV mode	13		
Picture in Picture (PIP)	14		
EPG mode	15		
Radio mode	16		
Teletext mode	17		
LOEWE Dialog	18		



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dts

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Welcome!

Dear Customer,

Congratulations on your purchase of this high quality Loewe television. Loewe stands for innovative design, excellent quality and exceptional functionality. To ensure that your product retains these properties for as long as possible, please follow the operating and safety instructions contained in this manual.

Articos 55 HD combines the expertise of Loewe and Carl Zeiss Optics to provide you with a superior home cinema experience. At the heart of Articos 55 HD (Digital Light Processing, DLP™) lies a Texas Instruments DMD (Digital Micromirror Device) chip that generates the television picture on its surface of microscopic moving mirrors. The projector lamp beams light through a rotating color wheel which breaks the beam into the primary colors of light onto the surface of the chip, and the light is reflected off of the micro-mirrors. The image is then projected through precision optics onto the projection screen, producing the sharp, film-like image. The result is a large television image with amazing color, sharpness and contrast.

Of course you do not need to engage in the technical specifics of DLP™, but we are certain that you will enjoy its performance in your Loewe TV.

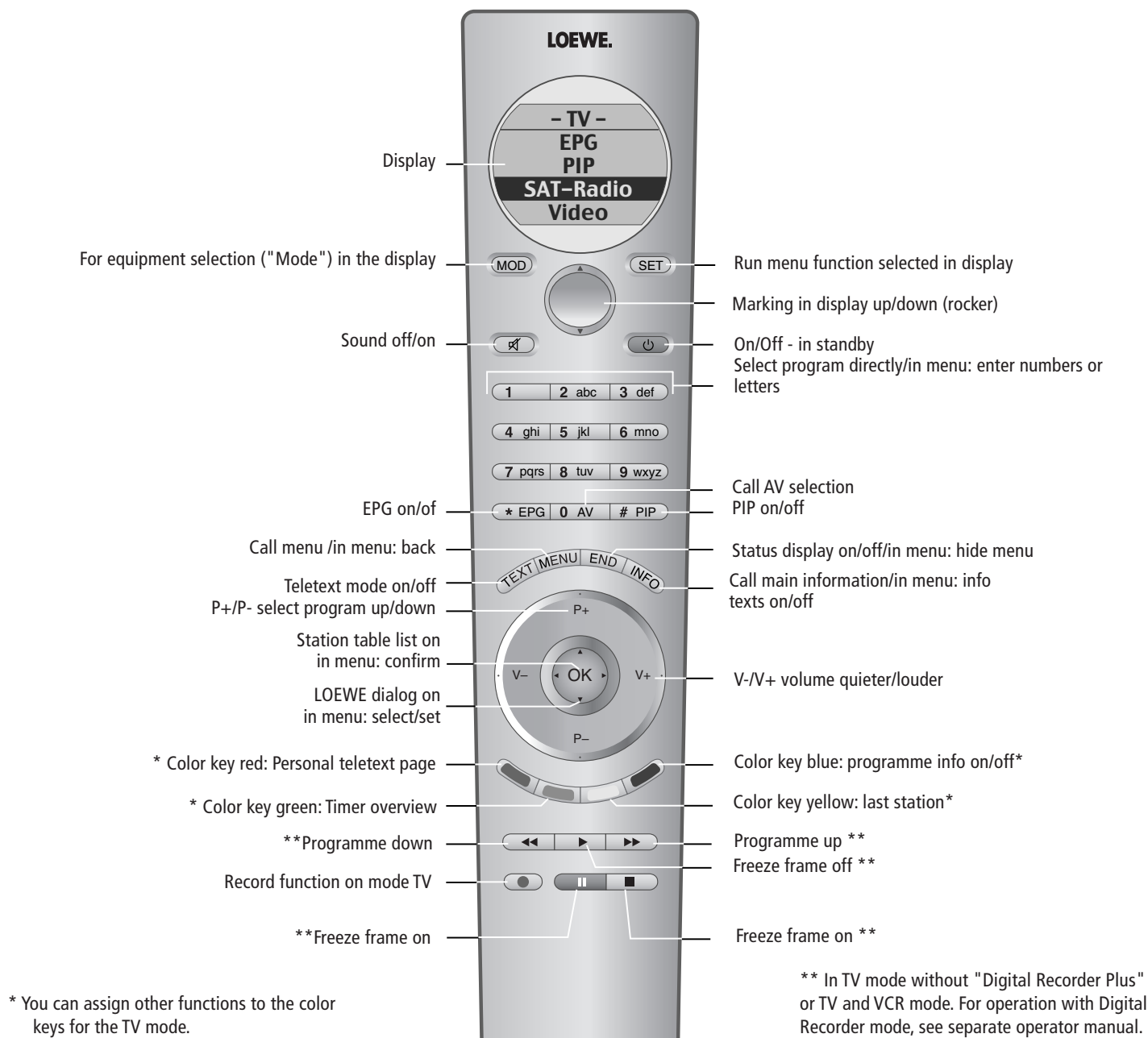
This instruction manual will help you to get started.

Your Loewe Team

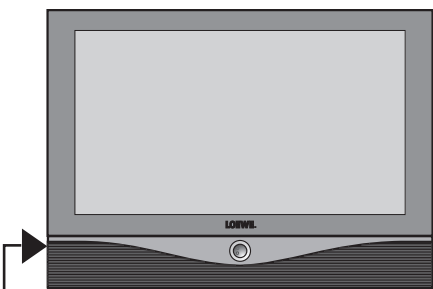


LOEWE.

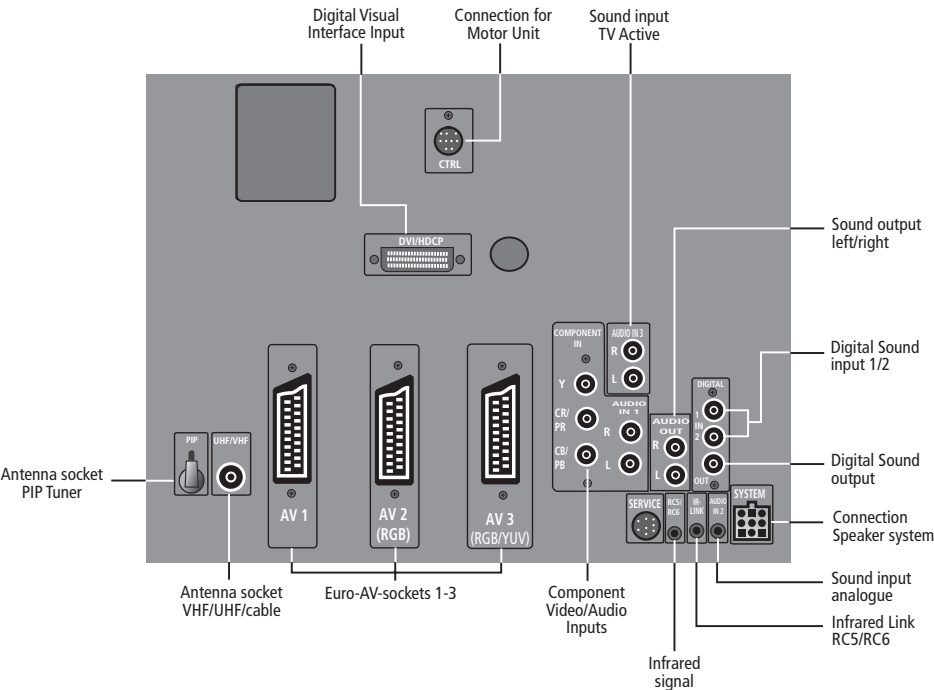
Remote operation – TV functions



Connections



- On/Off button
- Display menu
- Channel up/down / Set in the menu
- Headphone socket
- S-Video input (AVS)
- Video input AVS (FBAS)
- Sound input left / right



Setup

Installation possibilities

- **On top of a sideboard or table**
You can align your Articos simply to suit your sitting position with the additional rotary table stand by remote control.
- **On the Articos 55 HD Rack**
mechanically rotatable, with two height adjustable shelves
- **On the system racks Cube 1 and Cube 2**
with motorized control for rotating the TV set and shelves for DVD player, VCR etc.

You can connect add-on devices, such as video recorder, DVD player, Pay-TV decoder, Loewe sound systems, a Loewe OnlinePlus-Box or a Multimedia kit to the Articos TV set.

Operation

We have designed the TV set in such a way that it is easy to operate with menus. If you need information on operating the set, simply press the **INFO** key on the remote control to display the help texts, which will quickly enable you to understand the system.

If it is a matter of operating the TV, you can access a function directly from the index. This saves you from having to read through detailed operating instructions and is the reason, why this operating manual only explains the most important operating steps.

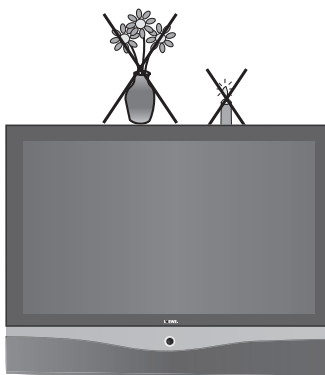
You can operate various Loewe equipment with the RC2 remote control.

For your safety...

For your own safety and to avoid any unnecessary damage to your unit, please protect it from...

- humidity, water sprays and droplets
- impacts and mechanical stresses
- cold, heat and heavy temperature variations
- dust
- cover allowing poor ventilation
- intervention inside the unit

Do not place vases filled with water, lighted candles etc. on the top of the TV set.



If you have brought the unit from a cold environment into a warm room, let it remain switched off for about an hour, as condensation may form on the set.

Lightning strikes may damage your TV set through the antenna and the mains power circuit. Pull out the antenna and mains plugs from their respective connecting sockets during bad weather and long periods of absence.

Transport the TV set only in vertical position.

- Your new TV set was designed exclusively for domestic use. Guarantee services cover normal use of the device.
- Avoid dropping metal objects, needles, paper clips, liquids, wax or similar into the air vents at the back of the set. This causes short circuiting of the set and could start a fire. If anything should get inside the set, switch it off immediately, pull out the plug and call the after-sales service to check it.
- The mains plug of the TV must be easily accessible so that it can be disconnected from the mains quickly at any time.
- Lay the power cable so that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, and may not be walked over or exposed to chemicals; the latter applies for the entire TV set. A power cable with defective insulation can lead to electric shocks and is a fire risk.
- When you pull out the mains plug, do not tug the cable but hold the housing of the plug. The cables in the mains plug could be damaged and cause a short circuit the next time it is plugged in.
- Have the repair jobs carried out only by Loewe Service.

Setup

Lamp information

Articos 55 HD is equipped with a special Longlife lamp to provide you with many hours of service free performance. Rated at 120 Watts, it is responsible for the stunning picture contrast.

Lamp burn out

Do not block the ventilation opening of the rear cooling fans. Disturbances in the air stream will cause the lamp to overheat and burn out. Keep all ventilation openings clear of objects.

Do not switch the TV on/off in short intervals. Frequent switching may decrease the life of the projector lamp. Allow the lamp to reach its full operating temperature before switching the TV off. Allow the lamp to cool down before switching the TV on again.

The lamp is electronically protected and will not restart in critically hot condition. The TV will remain in stand-by until the lamp has cooled off.

Ventilation maintenance

During TV operation the projector lamp and light engine are cooled by two fans located on the TV rear panel.

The filters in front of these fans will collect dust and may need to be cleaned from time to time. The cleaning interval depends on the set up position of the television.

Use a vacuum cleaner to clean the filters. Set it on low power and gently guide it along the ventilation grille.

In normal use, the filters should be checked at least every six months.

Changing the lamp

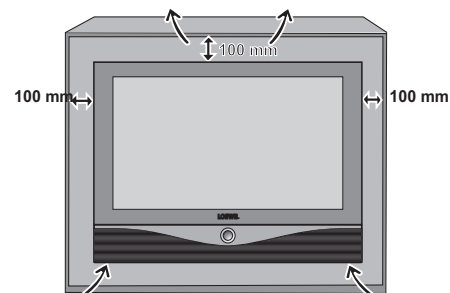
Do not change the projector lamp yourself. Interventions inside of the unit will void the guarantee unless done by the dealer. Have your dealer replace the defective lamp.

Note:

The built-in long-life lamp is a wearable part which is excluded from the guarantee. Please consult your dealer to have a defective lamp replaced.

Setup and cleaning

- Set up the TV set with sufficient space for ventilation. The openings for ventilation must not be covered with objects, such as magazines, tableclothes, curtains etc.



- Do not place any sources of fire, such as burning candles etc on the unit.
- Make sure that the screen is not exposed to bright light or sunlight, otherwise it creates reflections and the brilliance of the screen is lost.
- When choosing the location, please bear in mind that the set weighs 76.5 kilograms. If you stand the set on furniture (e.g. a table or sideboard), check their load capacity first.
- Take the swing range into account when installing a set with a motorized rotary stand.

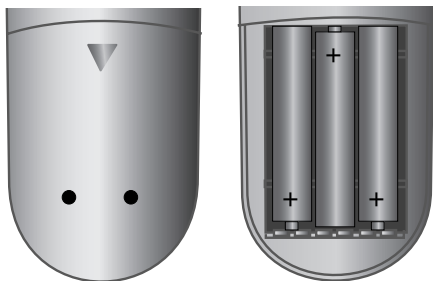
Clean the glass plate of the screen with a soft moist piece of cloth.

Also clean the other components of the system, such as the remote control, only using a soft moist piece of cloth (without any strong or scouring agents).

Initial installation

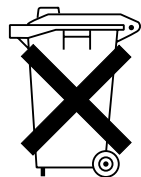
Batteries

To insert or change the batteries, press the point marked by an embossed arrow. Push the cover of the battery compartment down and remove it. Insert the batteries of the alkaline manganese type LR 03 (AAA) with the correct polarity (+/-). Then push the cover back on.



If you are inserting batteries in the remote control for the first time or changing the batteries you will see the language selection for the remote control in the display. Select German or English with the rocker. Press the **SET** button to confirm your selection. The display shows the "TV" menu, the remote control is set for operating the TV.

Note on disposal of batteries:



The original batteries do not contain any pollutants such as cadmium, lead and mercury. Used batteries do not belong in the domestic waste. They must be taken to the appropriate collection points according to the national laws. Ask your dealer.

Connection

Mains

Connect the TV set to a 230V/50-60 Hertz outlet.

Antenna

Connect your antenna or cable system to the antenna socket to the UHF/VHF antenna socket on the back of the set.



When equipped with a DVB-T module, connect your antenna system to the top socket of the DVB-T module (IN) and connect the bottom socket (OUT) to the antenna input of the PIP tuner.

When equipped with a satellite tuner, connect the satellite antenna to the SAT sockets.

Switching on

Press the On/Off button so that it is pressed in.

Note:

- Due to the optical back projection system it takes about 30 seconds for the picture to appear on the screen after switching on. Full brightness is not reached until after 2 minutes.

- Due to the DMD technology used, up to four black pixels may appear on the screen.
- Frequent switching on and off affects the life of the built-in projection lamp.

Initial installation

Automatic programming of the TV set is started the first time you switch it on. Follow the menus.

First you have to select the menu language for your set. Then you specify which antenna you have connected to your TV and in what country you are using it. Then you start the station search. The TV set searches for, stores and sorts all the stations which your antenna system receives. You then see a list of the stored stations in which you can mark your favorites. Finally log in your video recorders, decoders, Loewe audio system and Home Automation with the connection wizard and connect these to the TV set according to the illustrated connection plan.



Select the settings with the arrows on the ring ...



... confirm the settings with **OK**. You then move on to the next menu ...



... press this button if you want information about the settings.

You can repeat initial installation at any time, e.g. after moving house. Call the index in the main information (i button). Then select the item "Repeat initial installation". Then start "Initial installation" with **OK**.

Daily handling

Remote control - Overview

You can operate various Loewe equipment with the RC2 remote control.

In addition you can operate combinations of equipment, e.g. this TV and a DVD player or VCR.

Making the display visible

The display is switched off a few seconds after last using the remote control to prolong the life of the batteries.



MOD

SET

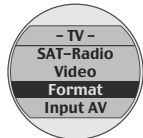


The display switches back on when you press a button. The display and the display illumination switch on when you press the rocker, **MOD** or **SET** once. The first line indicates the selected device or in the case of combinations, the name of the main device on the left and the device which can be operated with the drive buttons on the right.

General information about operation with the remote control display



SET



If the display is switched on, mark the desired function with the rocker. Perform the function with the **SET** button. The function is switched on or off. In some cases the function setting is changed by repeated pressing of the **SET** button or a sub-menu is opened.

Menu functions in TV

EPG

Call the electronic program guide of the TV set. Press the **SET** button again, the EPG is hidden. EPG can also be called and hidden with the * EPG button.

PIP

Call/hide the picture in picture function of the TV set. PIP can also be called and hidden with the # PIP button.

SAT radio

Switch the radio mode of the TV set on/off. Prerequisite: Your TV is equipped with a satellite tuner.

Video

Call or hide the video control bar.

Format

Call the selection for setting the picture format. Select the picture format by repeated pressing of the **SET** button.

AV input

Call the AV selection for playing connected equipment (e.g. VCR, camcorder or DVD player). Select the device by repeatedly pressing the **SET** button. The AV selection can also be made with the 0 AV button.

Picture

Show/hide the picture menu. You can set the TV picture with the help of the picture menu. The Picture menu can also be called by the TV menu → Picture.

Sound

Show/hide the Sound menu. You can set the TV sound with the help of the Sound menu. The sound menu can also be called by the TV menu → Sound.

Sound mode

Call the sound mode settings of the connected Loewe DVD-Preceiver "Auro".

Timer

Call the timer overview of the TV set.

Rotating the TV set

(only when equipped with "Motor Unit")



Launch the TV menu: Press **MENU** on the remote control.



Select the "Rotate TV" bar.



Using the arrows on the circular pad you can set the rotation direction to go right, to stop or to go left.



Close the menu.

Note:

Do not place any objects in the range of rotation of the TV set which could obstruct rotation or be knocked over in the process. Before activating the rotary function, make sure that the set can rotate freely and unhindered. You will find further setting possibilities on page 28.

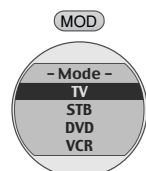
Daily handling

Setting the remote control

Setting the mode of operation (mode)

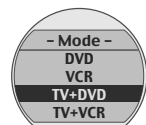
You can operate various equipment from Loewe and other manufacturers with this remote control. In the ex-factory state Loewe equipment is set for TV, VCD, DVD, Auro 8116DT (DVD/Audio), Certos (DEV1, DEV2) which you can operate directly. The d-box common in Germany is set for the Set Top Box (STB).

Press the **MOD** button with the display on.



The Mode menu is displayed.

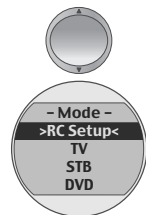
Mark the equipment or the equipment combination you want to operate with the rocker.



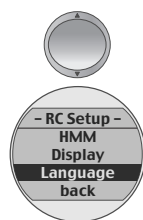
Press the **SET** button to accept the setting.

Setting the menu language of the remote control

Press the **MOD** button with the display on. The Mode menu is displayed. Mark >RC Setup< with the rocker.



Press the **SET** button to call the RC settings.



Mark "Language" with the rocker.



Call the language selection with the **SET** button.



Mark "Deutsch" or English" with the rocker.

Accept the language selection with the **SET** button.



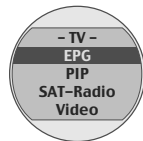
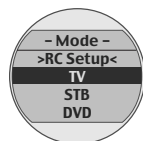
Exit the RC settings by pressing the **MOD** button.



Mark the equipment to be operated again with the rocker...

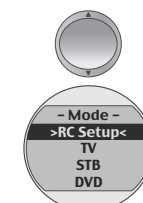


... and press the **SET** button to confirm the selection.

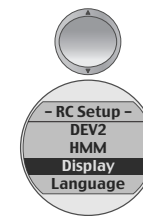


Setting the display contrast

Press the **MOD** button with the display on. The Mode menu is displayed. Mark >RC Setup< with the rocker.



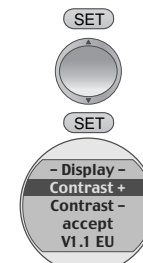
Press the **SET** button to call the RC settings.



Mark "Display" with the rocker.

Call the Display menu with the **SET** button.

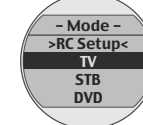
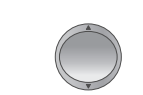
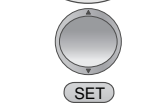
Mark Contrast+ or Contrast- with the rocker and Change the display contrast with the **SET** button.



Mark "accept" with the rocker and press the **SET** button.

Exit the RC settings by pressing the **MOD** button.

Mark the equipment to be operated again with the rocker...



... and press the **SET** button to confirm the selection.

Daily handling

Switching on/off

Your TV set is equipped with an economy standby power supply unit. On standby the power consumption drops to low power. If you want to save even more electricity, switch the set off at the On/Off switch.

But remember that EPG data will then be lost and timed recordings will not be made.



When the TV is switched on, you can switch it to standby with the blue on/off button. The red standby indicator on the set lights up. If the green indicator is also alight a timer recording on the VCR is in progress, EPG data input is taking place or radio mode without on-screen display is active.



From standby it is best to switch back on with the blue On/Off button or with a numeric key (station 0-9). The green (blue) operating LED then lights up.



When you switch on the TV with **OK**, you see the station table and can choose a station.

None of the indicators lights up when you switch off the TV set with the On/Off button on the set.

Switch on the TV set with the On/Off button on the set when it is switched off.

Changing channels



Channels up/down (only favorite stations if these are shown in the station table).

With the numeric keys on the remote control
The set has a dynamic memory with 220 (with DVB 1470) memory slots. If up to 9 stations are stored, you only need to enter one number, up to 99 two numbers, up to 999 three numbers and above 999 four numbers (please look in the station table to find out how many stations have been stored).

1-digit stations

7 pqrs

Keep the button 0 - 9 pressed for one second, the channel then changes immediately.
or press the button 0 - 9 briefly, the channel then changes after 2 seconds (immediately when up to 9 stations are stored).

2-digit stations

2 abc

7 pqrs

Keep the second numeric key pressed for one second, the channel then changes immediately.
or press both numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 99 stations are stored).

3-digit stations

1

2 abc

7 pqrs

Keep the third numeric key pressed for one second, the channel then changes immediately.
or press the three numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 999 stations are stored).

4-digit stations

1

2 abc

7 pqrs

8 tuv

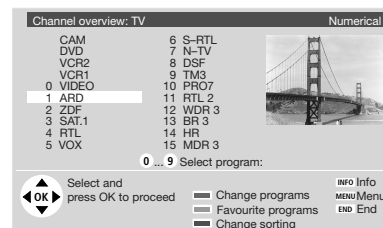
Press the four numeric keys briefly, the channel then changes immediately.

Depending on how many stations have been stored, you can place one or more zeros in front of the number and select for example station 7 = 07 or 007 or 0007.

With the station table



Call the station table with **OK**
Station table TV



Mark the station
(the marked station is shown in the PIP pictures)

0 AV

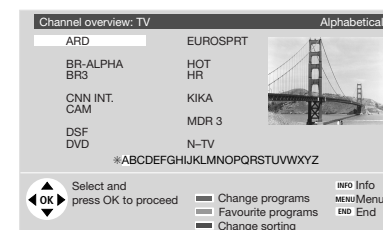
9 wxyz

or
Mark with numeric keys



Call the marked station

Sort alphabetically/numerically
(blue button)



Show favorites only (yellow button), selectable in the "TV Menu-Programs".

Call Audio/Video programs - AV selection
for playing AV equipment.

0 AV

AV Selection VIDEO AV1 AV2 AV3 AVS VGA/XGA DVI COMP.IN



Select AV connection (jack) or VIDEO for VCR station.

Daily handling

General menu operation

With the TV and picture menus, we show you how to navigate within the menus. Which buttons you can use for operation is shown at the bottom of the appropriate menu.

TV menu

Standard settings
Picture
Sound
zap2text
Connections
Settings

Call the TV menu

Mark (white field)

Call the menu with **OK** or

INFO Info
MENU MENU Back
END End

Picture

Contrast
Picture adjustment
Colour 32
Brightness
Sharpness
Tint
other ...

Grey menu items cannot be selected

Set (setting value and bar)

Mark other menu items

INFO Info
MENU MENU Back
END End

Picture

other ...
Picture format
DNC off [on]
DMI Plus
AMD

Select (frame)

INFO Show/hide info texts

INFO Info
MENU MENU Back
END End

Picture

other ...
Picture format
DNC
DMI Plus
AMD

Back to the previous menu level

Hide all menus

MENU

END

Adjusting the sound

Adjusting the volume

Adjust the volume

other ...
Volume 36

with "others ..." you can select and ...

Listening mode Stereo Panorama Dolby Virtual
Loudness
Sound adjust
Volume

... set other sound settings.

Mute

Sound off; Sound on: press button again or adjust volume. The status is displayed briefly on screen.

Other sound settings:

TV menu

Standard settings
Picture
Sound
zap2text
Connections
Settings

Call TV menu

Mark "Sound"

Call sound functions

Mark sound function

Set/select

Sound

Sound via
Listening mode Stereo Panorama Dolby Virtual
Sound adjust
Treble
Bass
Loudness
other ...

INFO Info
MENU MENU Back
END End

Sound settings: Sound via the loudspeakers of the TV set or another system. Listening mode Stereo/Panorama/Dolby Virtual. Sound adaptation, treble, bass and balance. Sound select for loudspeakers and headphones, AV

output sound. Volume of the headphones, automatic volume and max. volume.

Adjusting the picture

TV menu

Standard settings
Picture
Sound
zap2text
Connections
Settings

Call the TV menu

Mark "Picture"

Call picture functions

Picture

Contrast
Picture adjustment
Colour 32
Brightness
Sharpness
Tint
other ...

Mark picture function

Set/select

Select picture settings

Picture settings: Contrast, Picture adaptation, Colour, Brightness, Vertical hold (not for 16:9 or 4:3), Focus, Colour tone, Picture format, Noise reduction (DNC), Movement compensation (DMI) and automatic picture size adaptation (AMD).

Operation on the TV set

Changing channels on the TV set

Channel up

Channel down

Volume, contrast and color

Press the function button until the desired function is marked

More volume, contrast or color

Less volume, contrast or color





Modes of operation

TV mode

In initial installation and daily operation, the TV set is in TV mode. This is also the case when none of the other modes of operation such as EPG, Teletext, PIP, Video or Radio is selected. Every one of these modes of operation has a menu which you can call with the **MENU**-button and with some color button assignments.

Function of the color buttons in TV mode

You can assign the functions of the four color buttons yourself. The following functions are set at the factory:

-  red: personal teletext page (with DR+: call DR archive)
-  green: call picture format setting (with DR+: call timer overview)
-  yellow: call last viewed station
-  blue: call station info

You can assign other functions to the buttons in the TV menu "Settings" - "Function keys".


Status display



Show/hide status

Clock	20:15
1 ARD	Stereo

Main information



Call main information

Main information

Autom. channel search

Connections

Explanation of the remote control

Index

Technical spec. of TV set

Select control level

Select and call up with OK

Info


Back

End

The **explanation of the remote control** shows the function of every button in different modes of operation of the TV set and the remote control.

The **index** answers many questions regarding all aspects of the TV. If it is a question about the operation, you have direct access to the operating function from the index. Loewe TV sets are supplied in different models with different equipment. You can find out what equipment your TV has under the menu item "**Technical spec. of the TV set**". When you have made all the settings and connections, you can switch over to "**Simplified control**" using "Select Mode". Then the "Settings" and "Connections" can no longer be launched in all modes of operation menus. Switch "Simplified control" back off when you want to make settings.

TV menu



Launch the TV menu

TV menu

Standard settings

Picture

Sound

zap2text

Connections

Settings

Standard values

You can save the setting for picture and sound you have made in this menu and launch them again later.

Connections

You will find information about this in the chapter "Logging in and connecting AV equipment" on page 20.

zap2text

Some stations use this service. If teletext pages are referred to during a program, the TV set saves and/or displays this page number. You call the teletext page with the **TEXT** button

from the display during the program or from this menu.

Some **settings** in the TV menu:

Child lock

Use the child lock if you want to prevent your children watching after a certain time, once or daily, all or certain programs.

On-screen displays

You can define duration and position of the displays, the content of the program and status display and activate or deactivate zap2text as a display.

Timer functions

You can have your TV switch on and off at specific times or have yourself reminded by a signal tone.

Time and date

When you receive teletext, the TV records the right date and time settings. The time serves as information for timer recordings, timer functions and EPG. If you do not receive teletext you should set the date and time and not switch the TV off with the mains button as the settings will then be lost (Not all stations transmit the full date, you may have to add missing data manually).

Language

If "your" menu language is not set, you have to select the "Language" menu in a language you cannot understand: Press the **MENU**-button (TV menu), mark the last menu item (settings), press the **OK** button and mark the last menu item (Language) under "other ..." and press the **OK** button. Now select the right language and confirm with **OK**.

Modes of operation

Picture in Picture (PIP)

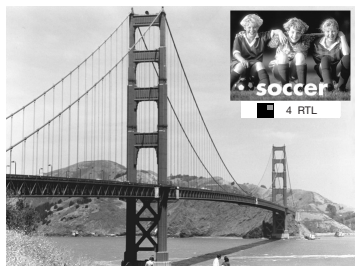
PIP can be displayed as Standard PIP, iPIP or Split Screen by default.

Standard PIP functions:

The Standard PIP displays a PIP image in the presently displayed TV image.

PIP Show/hide PIP picture

The status of the PIP mode i.e. PIP channel selection or PIP scan is shown in the status display in a colored square before the channel name and appears while changing the channel or on pressing the **END** key.



If the PIP status is green, you can select the PIP channel:



Channel up/down or direct

PIP image as static image



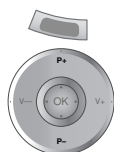
The PIP status must be green. If it is not, press the green button.



Then press the red button; the PIP image becomes a static image.

Press the red button again for a moving image.

Changing the channel of the TV image



The PIP status must be white. If it is not, press the green button. Then select the station as normal.

PIP channel scan



The PIP status must be green. If it is not, press the green button.



Start the PIP scan with the blue button. The PIP status turns blue.

The PIP channel now changes automatically. Stop the station scan with the blue button. The PIP status turns green again.

Interchanging PIP image/TV image



The PIP status must be green. If it is not, press the green button.



Interchange the pictures with the yellow button.

Position of the PIP image



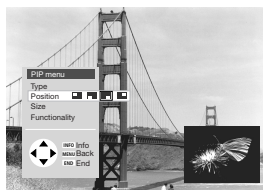
The PIP status must be green. Call the PIP menu with the **MENU** button.



Mark **"Position"**.



Select a symbol for the position.



Hide PIP menu

Size of the PIP image



Mark **"Size"** in the PIP menu.



Select **"Large"** or **"Small"**.

Split Screen



Mark **"Type"** in the PIP menu.



Select the symbol for Split Screen.

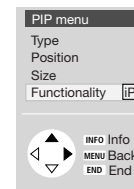


Hide PIP menu

The image on the right pertains to the PIP image and has no sound. TV image and PIP image are separated from each other by a colored line (PIP status).

Adjusting "iPIP"

Switch on the PIP menu with the **MENU** button.



Mark the **"Functionality"** bar.

Select **"iPIP"**.

Hide the menu with the **END** key.

iPIP function:

In iPIP the presently displayed TV image becomes the PIP image. For the TV image, select another channel and retain the PIP image.

In iPIP, the PIP status is orange-colored.



Show/hide PIP picture

The PIP image changes back into TV image, when you switch off PIP.

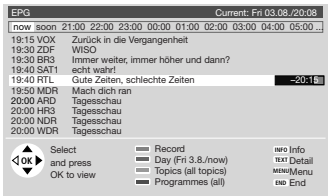
Modes of operation

EPG mode

EPG is the electronic station guide for TV programs. With this system, you can easily find the programs that interest you (sorted according to time, day, topics and programs). You can memorize programs and program recordings. A wizard is activated the first time you use EPG (not with DVB) which guides you through the necessary settings. Then run the data acquisition (see page 15).

Using the EPG

★ EPG Switch EPG on/off

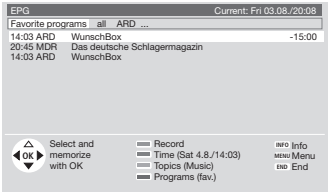


The first line is framed initially in green. The green frame stands for time and date, with the green button you switch between time and day or, if the frame has a different color, back to the green frame. With the arrow buttons ◀ ▶ you select: now, later, the time or day for starting stations. The list of stations below is updated accordingly. With the buttons ▼ ▲ you mark a station you want to watch (now running), memorize or record.



The frame turns yellow when you press the yellow button. The yellow frame means you can select topics. With the arrow buttons ◀ ▶ you choose between personal topics, all topics and the individual main topics such as Film, News, Show,

Music etc. The list of stations below is updated accordingly. With the ▼ ▲ buttons, you mark a station you want to watch (a program currently running), memorize or record.



The frame turns blue when you press the blue button. The blue frame signifies station selection. Use the arrow buttons ◀ ▶ to choose between your favourite stations, all stations or the station just set. You can select another individual station by moving to "..." with ▶, marking a station in the list and storing it with **OK**. The respective current settings are shown next to the operating notes for the color buttons.

Direct input of time

You can also enter the time directly with the numeric keys of the keypad. After entering the first digit, the time is displayed first next to the symbol of the green button by asterisks and is then replaced by the entered numbers, e.g. 2100. If the entered time has already passed, its entry is used for the following day.

Viewing or noting a program

You can watch or note the program selected with the ▼ ▲ buttons by pressing the **OK** button. A + sign is set in front of the program title for noting. At the start of the broadcast, this program is switched to or you see a message.

Programming recording with VCR

You prepare the station marked with the buttons ▼ ▲ by pressing the red button. Under "Timer Recording" you select VCR and whether you want to record one program or a serial. A red dot is set in front of the title of the program. If a program is already marked by a red dot, you can delete the timer data again with the red button (the red dot disappears).

Calling detailed information

If detailed information about the selected station is available, you will see the **TEXT**-button displayed additionally. You can call the detailed information with this button.

Other functions in the EPG menu:

Call the EPG menu with the **MENU** key.

List of memorized programs

You will find the stations you have memorized in a list.

Switch on TV at mark

You can have the TV set switch on automatically from standby mode at the time of a marked program. If you are not in at this time, a security prompt makes sure that the TV switches off again after 5 minutes.

Indicate/start memorized station

If the TV is already on when the memorized program starts you can have the start of the program indicated or the TV switched over immediately.

Short info lines

Short infos are broadcast for many programs. Set how many lines this information should have or switch the short info lines off.

EPG entry

If you want to start EPG operation, you can retain your last settings for topic and program selection or start with all topics and all programs.

Modes of operation

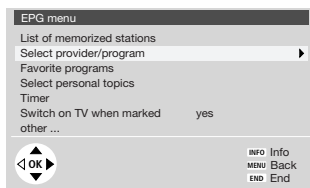
EPG settings

If you want to change the provider or want to have other programs evaluated, you can do this in the EPG menu.

Provider search

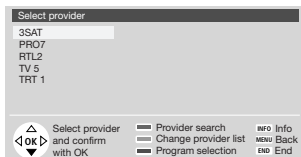
EPG EPG on/off

Call EPG menu



Mark "Select provider/program"

Call



Start provider search (green button). This may take some time.

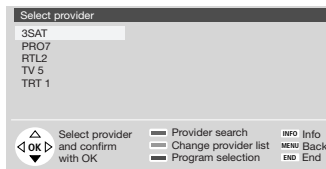
Mark the provider

Save the provider

This is followed by a station search and a list of TV stations is displayed which transmit data. Move on to the provider selection with the **OK**-button. If the stations offered are what you want, move on to the station selection with the blue button.

Selecting stations for EPG

Select the stations here for which information is to be collected.



Stations marked by + are favorite stations. The provider supplies information for stations marked by E (terrestrial, cable and analog satellites) and D (digital), these are already marked (blue letters).



Mark the station/Remove the marking



red: Only mark favorite stations



green: Mark all stations



yellow: Only mark this station



Back to the EPG menu

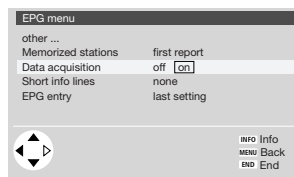
Switching data acquisition on/off



Mark "Data acquisition" in the EPG menu under "other"



Select data acquisition off/on



If, for example, you cannot receive any EPG providers and no DVB is installed in the TV set, you should switch off the data acquisition.

Performing data acquisition

The data must be collected first after these settings or every time the TV is switched off. To do this, select the program which you have defined as a provider and leave it switched on for about one hour or switch the TV set to standby mode. The green (blue) LED lights up in addition to the red LED after about two minutes. Data acquisition takes about one hour, in sets with a DVB module a little longer. The data are automatically collected between 2 and 5 in the morning when the TV is switched off to standby.

Defining personal topics

You will find the programs that interest you faster when you define your personal topics. Mark "Select personal topics" in the EPG menu and put together your list of personal topics.



Radio mode

Switch the SAT radio mode on and off by marking "SAT Radio" in the TV menu with the rocker using the remote control and pressing **SET**. If a satellite tuner and a DVB module are installed in your TV, radio stations are available. If these accessory modules are not installed, you can select only the audio inputs (connections AV1 to AV3) with the program table or with the keys **▼ ▲** and play an external audio signal through these.

Modes of operation

Teletext mode

Teletext transmits information such as News, Weather, Sport, Program Previews and Subtitles.



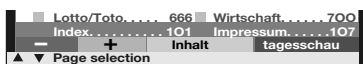
Teletext on/off



Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into general topics and topics. After switching on the teletext, up to 3500 pages are stored for fast access.

Selecting pages with the colored buttons

The colored bars (in TOP) or the colored writing (in FLOF) in the last line but one show you which colored buttons to use to scroll to general topics and topics.



red: back to previously viewed page (not with FLOF)



green: forward to next page (not with FLOF)



yellow: to the next topic (only in TOP and FLOF)



blue: to the next topic (only in TOP and FLOF)

Page selection with the numeric buttons

1 2 7 p q r s Enter the page number directly

More functions for page selection

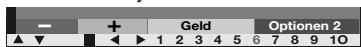
Mark a specified page number on the page (Page Catching)



Launch



Scrolling in stored sub-pages. In the bottom line you will see which sub-pages you can already launch



Launch contents page 100



The TOP table is a general list of teletext. You can only launch the table on channels which use the TOP operating system.



Launch the TOP table



Mark a general topic



Select the Topics column



Mark menu items



Display page

Displaying teletext pages

0 AV

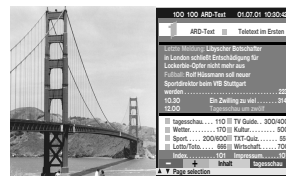
Stop self-turning pages (HOLD)

9 wxyz

zoom: top half - bottom half - normal size

PIP

TV picture on/off (Split text)



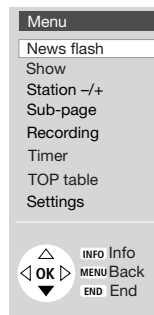
Program timer recordings

If the remote control is set to "TV" (no equipment combination), call the program pages of the current station with the Record button • in teletext mode. Select the station you want to record with ▼ ▲ and confirm with the **OK** button. Select VCR for "Timer data". Confirm with **OK**.

Teletext menu



Launch teletext menu



Here you will find functions such as "News flash", "Show" hidden information, switch to other channels (if another tuner is available), enter 4-digit sub-page number directly and programme video timer recordings via teletext. In the settings you will find menus to define the preview pages, subtitle pages and personal teletext pages.

LOEWE Dialog


(only activated in connection with the Digital Recorder Plus)

In connection with the Digital Recorder Plus the LOEWE dialog page offers an overview and quick access to information content of the TV, e.g. the programs currently showing, programs last recorded etc.

You should have already made a few settings before using the LOEWE Dialog to provide selection possibilities.

You should have made the EPG settings described on page 15 and run the EPG data entry. The Digital Recorder archive should also already contain recordings. You should have defined a few personal teletext pages. In all these cases you then have a useful selection. No LOEWE dialog is displayed with NTSC reception.

You call the LOEWE Dialog with the arrow buttons on the remote control when no menu is displayed.



Press one of the arrow buttons
▲ ▼ ◀ ▶ for about 1 second.

LOEWE Dialog 21:12
other ... 09.09.03

Frontal 21
21:00 - 21:45 ZDF

Wunderschöner Norden
21:00 - 21:45 N3

Rundschau-Magazin
21:00 - 21:15 BR

Quaks & Co
21:00 - 21:45 WDR

other ...

TV now | Archive | Favorites | Teletext

◀ OK ▶ Select and view with OK

EPG Record

INFO Main info
END End

The TV program just selected is shown in reduced size (the live picture). The blue bar shows you the selectable functions. The function on the left is active. You can move the function to the active position with the arrow keys ◀ ▶ .

Above the selected function you see a selection which you can navigate with the arrow buttons ▲ ▼ and view with **OK**.

With TV now - The selection of programs currently running acquired by the EPG system is displayed in TV now. If no EPG is received, a programme info of the station currently being received is displayed.

With Archive - the selection of recorded programs in the DR archive is displayed.

With Radio - the selection of programs of the satellite radio is displayed. If you have switched over to Sat radio mode, LOEWE Dialog cannot be called. If you do not receive satellite radio (no satellite tuner/DVD module), Favorites is displayed in place of Radio, that is favorite programs you have defined.

With Teletext - the selection of personal teletext pages is displayed.

This is how you select with the example of the "TV now" function
Mark the desired station with the arrow buttons ▲ ▼ , the name turns blue. Other stations can be displayed with "others..." .

Press the **OK** button to watch the station. You can call LOEWE Dialog with the ▲ ▼ ◀ ▶ buttons so that the desired function is ready for selection on the left.



Call TV now



Call Archive ▼

LOEWE Dialog 21:12
other ... 09.09.03

Shimla
02.09.03 ZDF

AVO-Session Basel 2002
03.09.03 3Sat

Disco
05.09.03 3Sat

Quaks & Co
06.09.03 WDR

other ...

Archive | Favorites | Teletext | TV now

◀ OK ▶ Select and view with OK

DR-Archive

INFO Main info
END End



Call Teletext ◀

LOEWE Dialog 21:12
09.09.03

ARD-BOERSE
731 ARD

WETTER
604 BR

NACHRICHT
112 ZDF

Teletext | TV now | Archive | Favorites

◀ OK ▶ Press OK for more details

TEXT Teletext

INFO Main info
END End



Call Favorites ▶

LOEWE Dialog 21:12
09.09.03

other ...

124 Bayern 3

125 RTL

126 Bayern 2

127 Melodie

128 NDR 2

129 NDR1

130 HR3

131 WDR3

132 Antenne

other ...

Favorites | Teletext | TV now | Archive

◀ OK ▶ Select and press OK to switch

Channel overview

INFO Main info
END End

Operation of additional equipment

Video mode

You can operate Loewe video recorders and DVD players with the video control bars even if they are hidden. The VCR's must be connected to the Euro AV sockets (Scart) and logged in under the "Connections" menu.

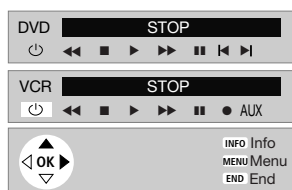
Digital Link must be switched on on the Loewe video recorder. Only then can you use the control bar. You also need Digital Link for timer recordings of satellite programs controlled by the TV set.

You can display up to three menu bars, these are displayed when the appropriate video units are logged in the "Connections" > "Connections: Connection plan" menu.



Show video control bar:
Mark in the TV menu of the remote control with the rocker „Video“

... and then press **SET**



Select video menu bar, if for example several VCRs or a DVD player and a VCR are connected.



Select function



Switch VCR/DVD on/off



Select video input (Euro-AV socket) for the VCR



Rewind (only for VCR) or Scan in rewind



Stop (STOP)



Playback (PLAY)



Fast forward (only for VCR) or Scan in fast forward



Pause (PAUSE)



Next chapter (only for DVD)



Previous chapter (only for DVD)



Record



Perform selected function.

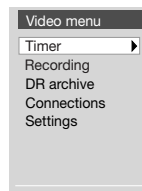
When you start a recording, the program you have just selected is recorded. You cannot switch over to another channel, it is locked. You can only switch over when the recording has finished. Exceptions:

1. You have installed several tuners (not PIP tuners) in the TV set, then you can watch another channel with the second tuner.
2. You can also watch the signal via an AV connection (e.g. DVD player or a second VCR).
3. In a VCR with Digital Link Plus the VCR tuner is used for the recording (not for satellite programs).

Video menu



Show the Video menu



The Video menu provides you with the following options:

You can change and delete timer data or program new recordings in the "Timer" menu. The "Record" menu gives you the option for timer programming by EPG, teletext or manually.

You can call the archive list with "DR Archive" if a Digital Recorder is built in.

In the "Connections" menu you can log other AV equipment on or off. In the "Digital Link Plus transfer" menu the station data of the TV set (not satellite stations) are transmitted to the Digital Link Plus VCR.

Digital Link Plus VCRs have the possibility for transferring the station data from the TV set to the VCR via the Euro-AV cable (not for satellite stations). Every time you change the station memory of the TV, you are asked whether you want to make a data transfer.

The receiver unit of the VCR is always used for recording with a Digital Link Plus video recorder (not satellite stations) and the tuner of the TV set is available for watching TV.

Loewe VCRs also have **Digital Link**, a system for controlling Loewe VCRs via the Euro-AV cable. If the Loewe VCR only has Digital Link, the TV tuner is used for recording. If you have installed your Loewe VCR in a concealed place, you can operate the Loewe VCR with the remote control. Operation with the control bar also works with Digital Link.

Digital Link must be switched on on the video recorder.

Only use fully wired Euro-AV cables, otherwise Digital Link or Digital Link Plus will not work.

Operation of additional equipment

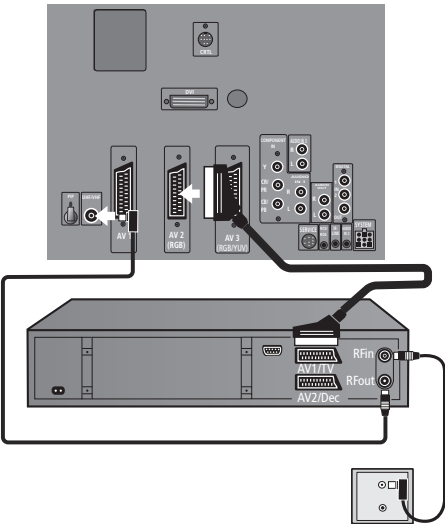
Logging in equipment

You have already logged in and connected all connected devices (video recorders, camcorders, DVD player, DVD recorder, Loewe audio system, Pay-TV decoders, Loewe home automation, door intercom) with the connection wizard when you put it into operation for the first time. If you want to connect further or different devices, you have to call the connection wizard in the TV menu - "Connections".

Connecting VCR equipment

In addition to the connection via the Euro-AV socket, you also have to connect the antenna (only for antenna or cable systems) through the VCR to the TV set. The antenna signal is then available both to the tuner in the VCR and the TV tuner.

If a DVB-T module is installed, connect the VCR to the IN socket of this module.



Search for and store the VCR station (if there is no Euro AV cable)

Switch on the test station on the VCR or insert a recorded tape and start playback.

Then call program 0 on the TV set (set ex-factory to channel 36). Select the first menu item (VCR) in the AV selection list.

To prevent "normal" TV stations being found in the search, pull out the antenna plug from the antenna input of the VCR temporarily (the plug attached to the cable to the antenna system).

TV menu

- Standard settings
- Picture
- Sound
- zap2text
- Connections
- Settings

Settings

- Stations
- AV settings
- Child lock
- On-screen displays
- Timer functions
- Time and date
- other ...

Stations

- Automatic search
- Manual adjustment
- Sort
- Delete
- Enter/change name
- Preferred stations

Manual adjustment

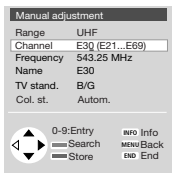
Range: VHF [UHF] Cable
Channel: E36
Frequency: 591.25 MHz
Name: VIDEO
TV stand: B/G
Col. st.: Autom.

Manual adjustment

Range: UHF
Channel: E37 (E21...E69)
Frequency: 599.25 MHz
Name: E36
TV stand: B/G
Col. st.: Autom.

0-9: Entry **Search** **Info** **Menu Back** **END** **End**

3 0 AV Enter channel 30



Search for channel (blue button)

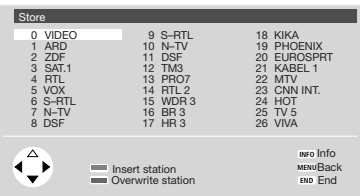
When the station is found:



Store (red button)

If you want to change the program, e.g. to "Video", select the "Name" line. Enter the new program name.

A list of the stored stations is displayed



Overwrite program (program 0 marked) pressing the red key



Hide menus

Plug the antenna plug back into the VCR. If you now get interference because a TV station is transmitting on the same channel as the VCR station, you have to change the transmitting station on the VCR (see operating instructions of the VCR) and search for the VCR station on the TV again.

Operation of additional equipment

Video playback

In order to see the VCR picture on your TV and hear its sound you have several possibilities:

1. You can use the Euro-AV sockets on the TV set and on the VCR. This is the best option of all - good picture and sound quality. If you are playing back from a VCR with Digital Link Plus, the VCR picture is shown on the current station slot. If you are playing back from a standard VCR, DVD player or camcorder, select the AV socket to which the video signal is connected in the AV selection list or the station table. Video recorders emit a switching voltage during playback which the TV set can decode (can be activated for every VCR in the connection wizard or set Settings - AV Settings - Allow switching voltage to "Yes" in the TV menu). Then the VCR picture is shown on the current station slot as in Digital Link Plus VCR's.

2. You can also control logged-in Loewe VCRs and DVD players with the video menu bar. See page 19 for more details.

3. Use the antenna connection between the VCR and the TV. The sound is only transmitted in mono. Select the first menu item, e.g. VIDEO, in the AV selection.

Calling an AV program in the AV selection list



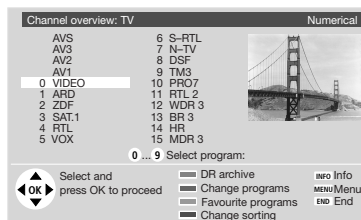
Select AV connection (e.g. socket AV1) or VIDEO for the VCR station.

Now you will see the playback from the connected AV unit.

Calling an AV in the station table



Call the station table



In the numeric sorting you will always find the AV devices at the top of the list without station numbers.



Select the AV connection and...



confirm with **OK**.

Now you will see the playback from the connected AV unit.

IR-Link

Your TV set is equipped with the IR-Link socket (IR Link), a cable with plug and the IR transmitter diode are included with the set. This allows you to operate a concealed d-box or a VCR from another manufacturer with its remote control through the TV set with most remote controls. Plug the jack plug of the cable with infrared transmitting diode into the IR socket on the back of the TV. The infrared transmitting diode at the end of this cable must be placed in front of the concealed device. The TV must be switched on for transmission. A napped strip is provided to help to lay the cable. The strip is self-adhesive; pull off the backing foil first. Stick the strip to the shelf or cabinet and press the cable into the naps. You can cut up the strip into several sections with a knife. Point the infrared remote control at the TV to operate the concealed VCR.

HMM (Home Multi Media)

The following menu items are only required when an "OnlinePlus Module" is integrated. The Home Multi Media function (HMM) must be activated on the remote control for this (> Mode RC Setup<).

HMM on/off

Switch the Home Multi Media mode on/off.

HMM sound

Play the sound of the built-in HMM module.

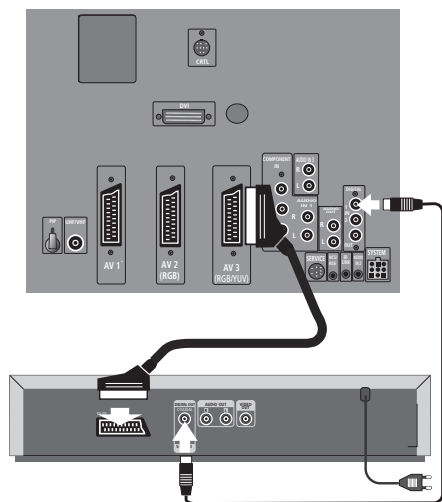
HMM window

Switch over pages when several Internet pages are displayed at the same time.

Operating additional equipment

DVD player

Log in the DVD player as described in the operating instructions for the TV set. The Articos TV set has 2 coaxial digital sound inputs 1/2. Connect the output sockets of the DVD player (DIG OUT) to the digital sound input socket (DIGITAL IN 1 or 2) of the TV set with a Cinch cable. Also make the connection for the video and the analogue sound signal (mono or stereo). Connect the Euro AV cable of the DVD player to the Euro AV 1 audio/video socket and to the Euro AV socket 3 (AV 3).



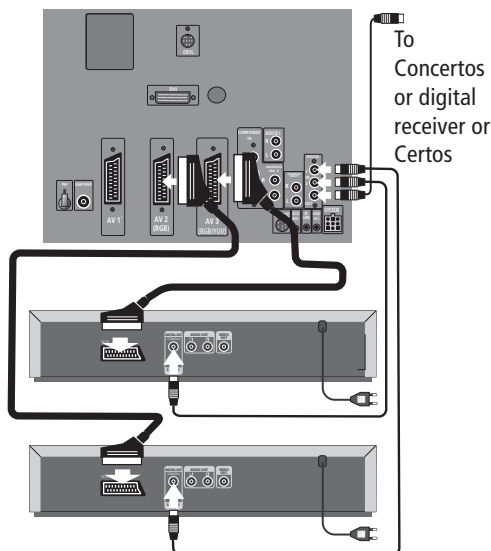
Digital output

The digital sound signal is present at the socket DIGITAL OUT of the TV set. You can connect here, say, an external Dolby digital decoder.

Digital input/output

The integrated "Digital Input Selector" is a comfortable electronic switch with about 4 inputs and one output for digital sound signals. Connect the Loewe Certos/Concertos system or a digital receiver to the digital output (DIGITAL OUT) of the TV set. This switch makes two digital inputs (DIGITAL IN 1 and 2) available to you for external devices.

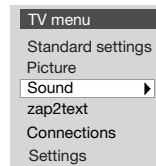
The TV set uses the other two inputs. The TV set or a DVD player or another sound source, connected to one of the AV connector sockets of the TV set, thus converts a digital signal (PCM) and outputs it to the socket "DIGITAL OUT". You connect the digital sound output of the DVD/CD player to the digital input 1 or 2 on the TV set by means of a Cinch cable. The digital signal from the DVD player is outputted unaltered at the digital output of the TV set. You connect the video output of the DVD player to the AV connection socket AV3, AV2 or AVS (S-Video input), by means of an AV connecting cable, depending on the default in the "Connections" menu of the TV set.



If you switch on the "Radio Mode" the digital inputs 1 or 2 can be selected directly. The digital TV sound or the sound of a DVD/CD player is only audible through the Digital Receiver or the Concertos or Certos system.

MENU

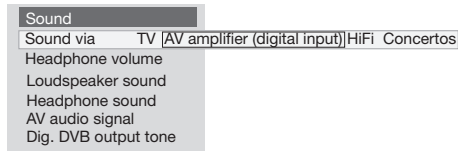
1. Call up the TV menu by pressing the **MENU** key.



2. Select the "Sound" line, then press the **OK** key.

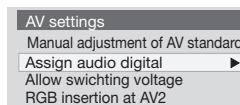


3. "Sound via" select the "AV amplifier (Dig. input)" or "Concertos", if Concertos has been connected.



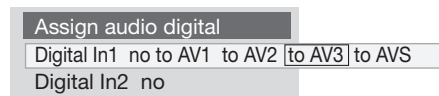
MENU

4. Press the **MENU** key.
5. Select the bar "Settings" and confirm with **OK**.
6. Select the item "AV settings", then confirm with **OK**.



Operating additional equipment

7. Select the "Assigning Audio digital" line and press **OK** to confirm.



8. Select "Digital IN 1 - to AV3" for example for socket AV3 if a DVD player or CD player with coaxial-digital output is connected to digital input 1 and this device is logged in in the "Connections" menu.
If the video signal from a play console is connected to the AVS socket, the relevant device is logged in and the digital sound is present at the digital input 2, then select "Digital In 2 – to AVS" etc.
9. You can complete the settings by pressing the **END** key, the settings are then saved.

AV-connection/Select device:

Press the key 0 on the remote control a little longer; the AV selection bar is displayed again. Select the AV connection to

0 AV

AV Selection VIDEO AV1 AV2 AV3 AVS VGA/XGA DVI COMP.IN



which the sound source, such as the DVD player, is connected.

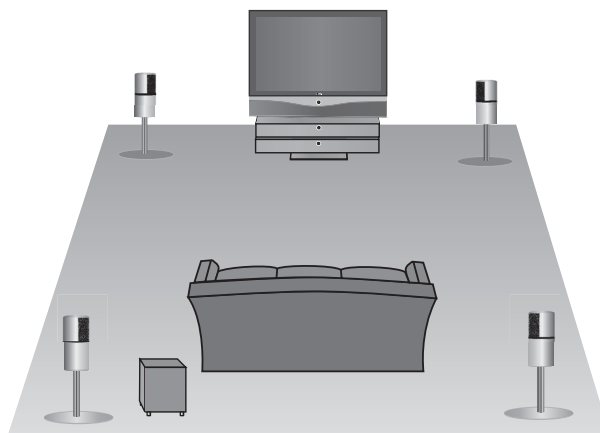
Note

The digital TV sound or the sound from a DVD/CD player is only audible through the Digital Receiver or through the Concertos or Certos system.

Connecting Loewe sound systems

The arrangement of the speakers and the television set might look as depicted below. However, the layout of the front and surround speakers should be set up in symmetry to the television set and your sitting position. The surround speakers can also be set up behind your sitting position, facing towards the front speakers.
The Acoustimass® module can also be set up in another place, e.g. particularly effective behind your sitting position, but in such a way that the bass frequencies are able to radiate freely.

Articos with Concertos sound system



The Concertos sound system offers you a new type of sound dimension in music and film performances with integrated electronics. Even at low volumes, you can then hear the full bass in the correct ratio to the higher and medium frequencies.

Loewe offers two sound systems **Concertos 1** and **Concertos 2**, consisting of an Acoustimass® Module, a set of cables and the satellite speakers.

If the integrated speakers of the TV set are not to be used for the center channel, then **Concertos 1** with five Loewe satellite speakers can be connected.

Your Articos uses the integrated loudspeakers in the TV as a center channel. Therefore use Concertos 2 with four satellite loudspeakers.

Connecting Concertos components:

Before connecting the devices, ensure that they are switched off or pull out the mains plug. Connect the components of the Concertos system to the TV set, as shown on page 25.

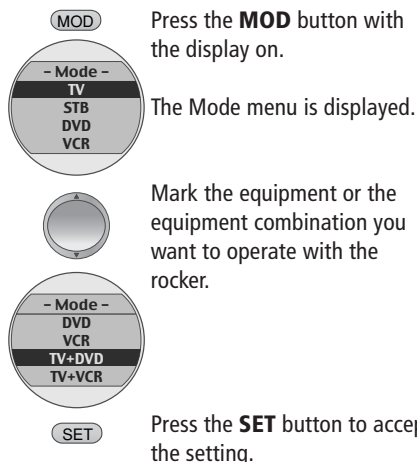
First use:

To put Articos into use with the Concertos system, some settings from the Sound menu of Articos are required. In this context, please read the separate Operating Instructions "Concertos 1 / 2 – Sound".

Operating additional equipment

Operating other Loewe equipment with the RC2 remote control

You can operate various Loewe equipment with this remote control. In the ex-factory state Loewe equipment is set for TV, VCD, DVD, DVD-Preceiver 8116DT (DVD/Audio), Certos (DEV1, DEV2) which you can operate directly. The d-box common in Germany is set for the Set Top Box (STB).



In addition you can operate equipment combinations, e.g. this TV and a DVD player or VCR. The bottom six buttons then take over drive functions for the DVD player or VCR. In this case, you cannot operate the Digital Recorder.

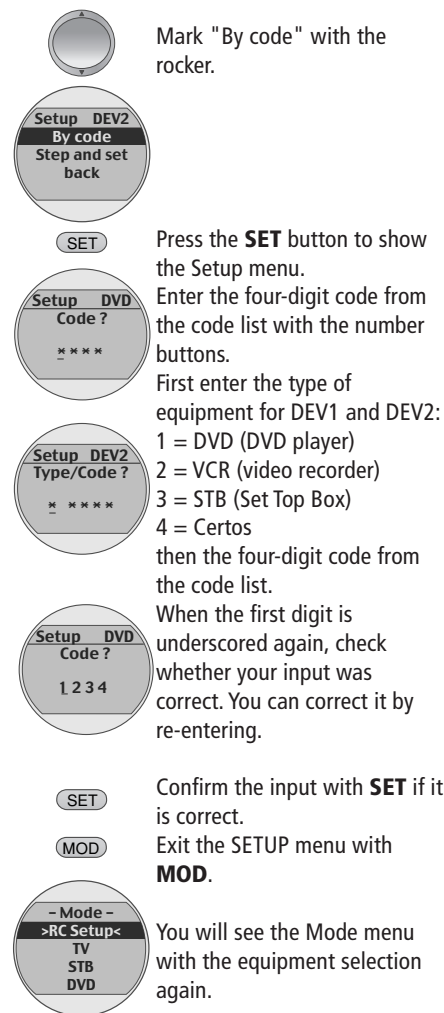
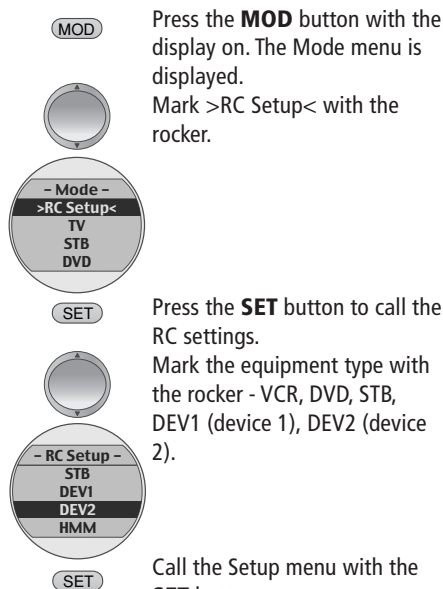
Switching over the remote control for operating equipment of other manufacturers

You can switch over the remote control for VCRs, DVD players and Set Top Boxes if the infrared code of the equipment type is listed in the code list or is in the code memory of the RC2.

Switching over is done on the one hand by entering a four-digit code and on the other hand the remote control suggests codes which you can test on the switched on equipment. If you cannot find the equipment in the code list, try to switch over the remote control with "Step by set".

Switching over the remote control - with code input

Look for the code number of your equipment in the code list. The list is sorted according to equipment type - DVD, VCR, STB - and alphabetically according to manufacturer. You will find one or more code numbers next to the manufacturer name.



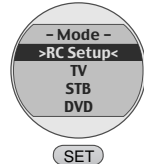
Select the device you have just programmed to test the functionality. If the device cannot be operated or is difficult to operate, repeat the code input with the next code from the list. If no other codes are specified, try a code suggested by the remote control.

Operating additional equipment

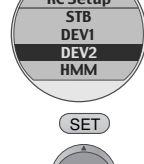
Switching over the remote control - with the suggestions by the remote control

Switch on the device to which you want to set the RC2. Standby is not sufficient!

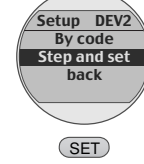
MOD Press the **MOD** button with the display on. The Mode menu is displayed.
Mark >RC Setup< with the rocker.



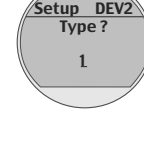
SET Press the **SET** button to call the RC settings.
Mark the equipment type with the rocker - VCR, DVD, STB, DEV1 (device 1), DEV2 (device 2).



SET Call the Setup menu of the appropriate device with the **SET** button.
Mark "Step and set" with the rocker.



SET Press the **SET** button to show the input menu for DEV1 and DEV2.



Enter the type of device here:
1 = DVD (DVD player)
2 = VCR (video recorder)
3 = STB (Set Top Box)
This setting is not necessary in VCR, DVD and STB.
SET Press the **SET** button to accept the input.



You see the Setup menu with the device type and the currently set code in the last line of the menu.

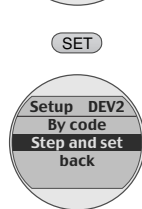
Hold the remote control pointed towards the device you want to switch over to. Watch the device. If it switches off to standby when you press **SET**, you have found the right code.



If nothing happens, press the **SET** button again (a new code is sent every time you press **SET**) until the device switches to standby.



When this happens, mark "accept" with the rocker.

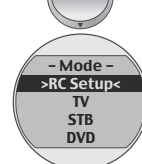


Accept with the **SET** button. The Setup menu is displayed again. Mark "back" with the rocker and press the **SET** button. You will see the Mode menu with the equipment selection again. Mark the device to be operated.

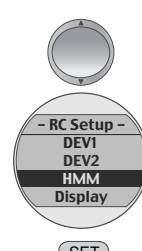
Hide/show HMM menu items in the TV menu

You get the HMM menu items when the HMM function is activated on your remote control!

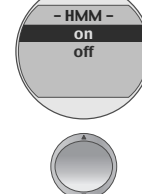
MOD Press the **MOD** button with the display on. The Mode menu is displayed. Mark >RC Setup< with the rocker.



SET Press the **SET** button to call the RC settings.



SET Call the menu with the **SET** button.

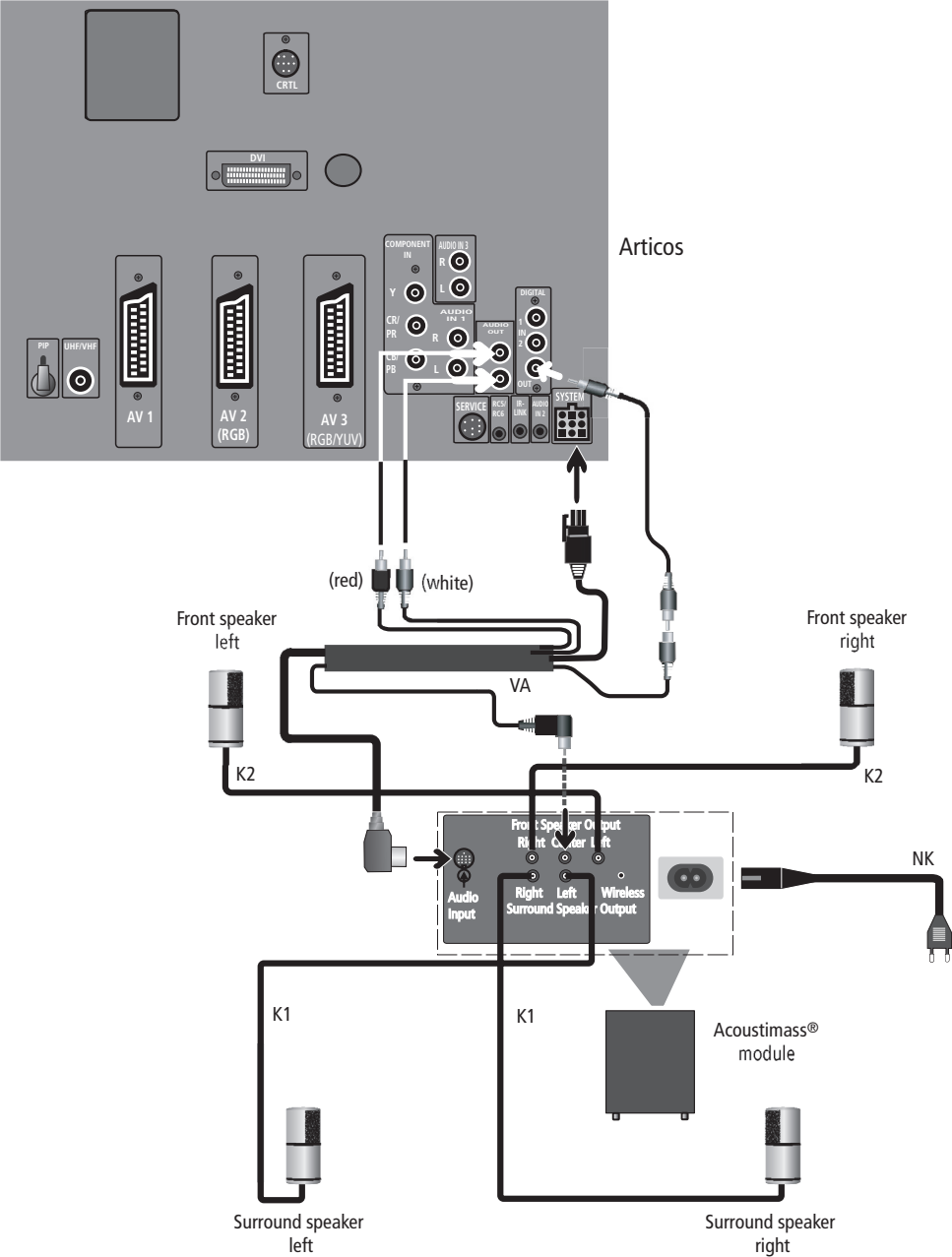


Mark "on" with the rocker to have the HMM menu item displayed or "off" to hide it.

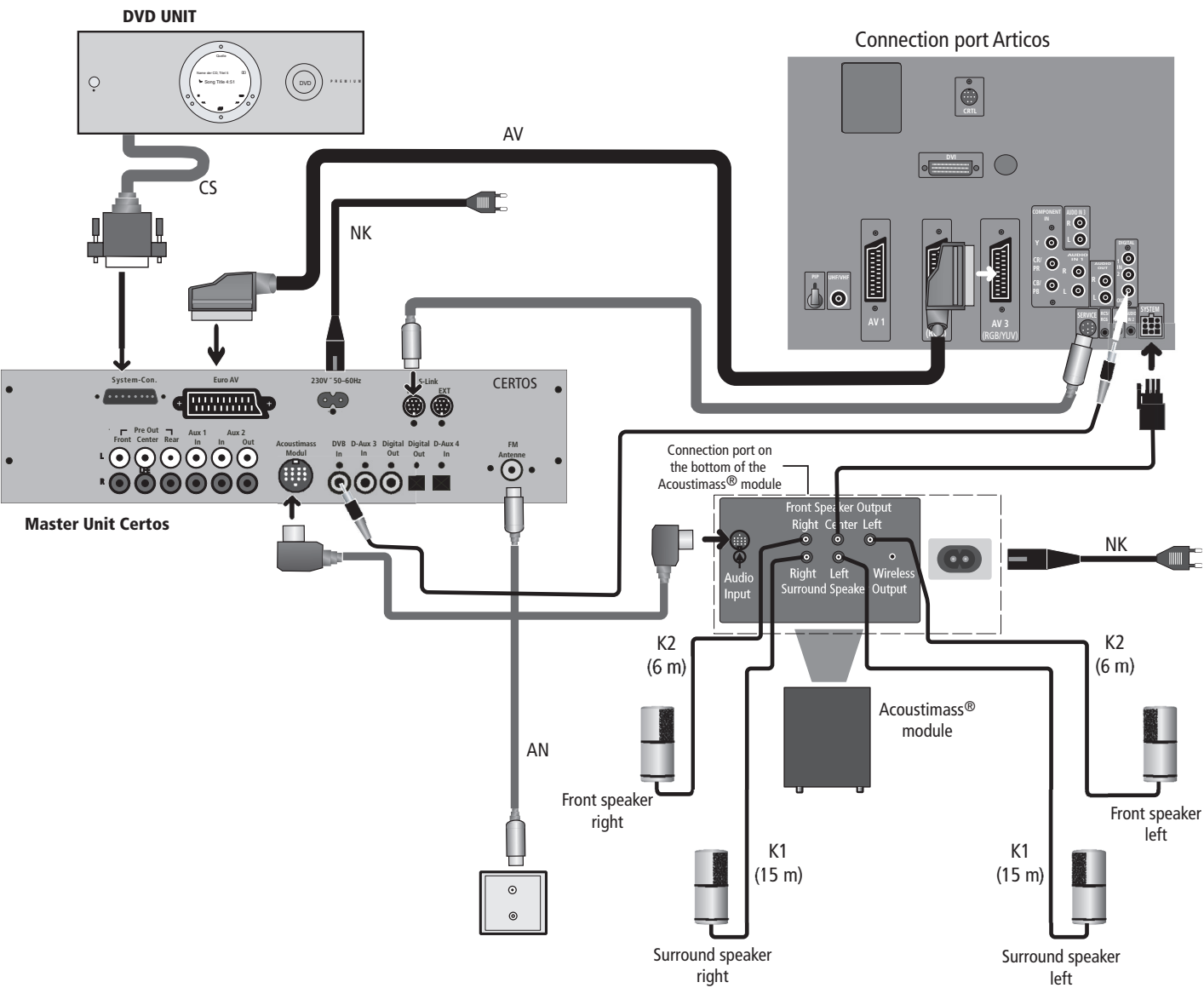
SET Confirm the selection with the **SET** button. You will see the RC Setup menu again.

MOD Exit the menu with the **MOD** button. You will see the Mode menu again with the equipment selection.

Loewe sound systems Concertos and Articos



Loewe sound systems Certos/Concertos and Articos



Viewing angle range of rotation

If the screen is mounted on a "Motor Unit" you can rotate it with the remote control to suit your sitting position.

Setting the rotation area (a maximum of +/- 45 degrees)

With this menu, you can determine the maximum rotation to the left and right.



Press **MENU** on the remote control.



Highlight the "Settings" bar.



Press **OK**, then to "other..."



Highlight the "Rotate TV" bar, press **OK**.



Select line "Basic adjustment".



Press the **OK** button.



You set the desired maximum range of rotation to the right by pressing the ring (right). Rotation stops when you release the ring.



The setting is saved by pressing **OK**.



Then set the desired maximum rotation to the left by pressing the ring (left). Confirm with **OK**.



Press **END** to exit the menu.

Determining the switch off position

Here you determine the position of the screen (TV set) which is adopted when switching off providing you have activated this function.



Press **MENU** on the remote control.



Highlight the "Settings" bar.



Press **OK**, then to "other..."



Highlight the "Rotate TV" bar, press **OK**.

The menu "Rotate TV: Determine switch off position" appears.



You set the desired switch off position to the right or left by pressing the ring.

The maximum selectable range of rotation is +/- 40 degrees.

Rotation stops when you release the ring.



Save the set switch off position with **OK**.



Press **MENU** on the remote control.



Highlight the "Settings" bar.



Press **OK**, then to "other..."



Highlight the "Rotate TV" bar, press **OK**.



If you select "**yes**" in the line "Activate switch off position" the TV set will turn to the set position when switching off with the remote control.

The TV does not rotate when switching off if "**no**" is selected under "Activate switch off position". The TV set stays at the last set position when it is switched off.



Press **END** to exit the menu.

Displaying PC images

Your Articos has a digital visual interface (DVI) with which you can show PC images on the TV screen for example.

Connecting personal computers

If your PC does not have a DVI interface, please use a VGA-DVI adapter cable. This is available from electronics and computer dealers. Connect the PC directly or via the VGA-DVI adapter to the socket marked "DVI" on the back of the TV set. Connect the PC's analogue sound outlet channel to the "AUDIO IN 2" socket. The TV set can be connected to the following standards: VGA (640x480 @85Hz), XGA (1024x768 @85Hz), SVGA (800x600 @85Hz) or SXGA (1280x1024 @75Hz).

DDC Function (Display Data Channel)

The DDC function automatically detects graphic resolutions supported by the TV set.

If you wish to use the DDC function, first connect the PC to the TV set via the VGA or DVI socket. Boot the PC. Regardless of whether the TV set is on or off, you can select the graphic resolution (e.g. XGA 1024 x 768 at 75 Hz) in the "Properties" menu on the PC.

Launch the program for displaying PC images



Press the (Zero) key and "AV Selection" appears.



Choose "VGA"/XGA"

PC image settings

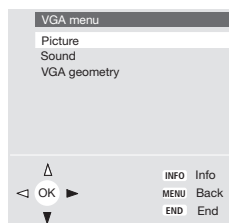
If a PC image is displayed on the screen, you can call up the "VGA menu".



Call up the VGA menu and...



Highlight the "Picture" line



Confirm

In the "**Image**" menu, you can select the contrast, brightness, sharpness, picture format, colour standard etc. and adjust the light ratios to your personal preferences.

To display pictures, you can select the format 4:3, since most camera pictures are taken in this format.

To ensure the best possible display and maximum image sharpness for the VGA and SVGA standards, you can select "**Original**". In this case, you need to know the graphics card's precise format values and set them in the "VGA Geometry" menu.

In the "**Sound**" menu, you can set the volume of the loudspeakers or headphones, or select the tone for two-tone playback.

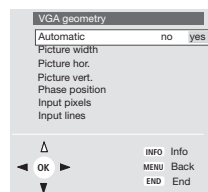
VGA geometry settings



In the VGA menu, select the line "VGA Geometry"



Launch



The setting options are restricted in "DVI".



Select "**Automatic yes**" on a computer with a conventional graphics format.



Your Articos will automatically adjust to the supplied image format.

Special graphic format may require further settings to be made:

- Set the picture width
- Move the picture horizontally, to the left or right
- Move the picture vertically, upwards or downwards
- Set the phase position to give a picture that is as jitter-free as possible
- "Input pixels" allows you to set the horizontal resolution of the PC image.
- "Input lines" allows you to set the vertical resolution of the PC image.



Save settings



Pressing the **END** key on the remote control hides the menu.

Selection possibilities for the "COMPONENT IN" socket: Choose the menu "Connections" and set it as follows: Connections: Connection plan → Device selection → others → Device to COMPONENT IN socket **yes**. After pressing **OK** several times, you get the menu "Connections" with the following selection possibilities:

- Automatic, it is detected automatically which signal SDTV or HDTV/Pro scan is applied at the "COMPONENT IN" socket.
- SDTV for PAL with 625 lines, 50 Hz interlaced or NTSC 525 lines, 60 Hz interlaced
- HDTV for high definition video signals
- Pro scan for 625 lines/50 Hz or 525 lines/60 Hz progressive.

With **OK**, you finally get the menu "Connections: Assign Audio Digital".

What to do when ...

Problem	Possible cause	Remedy
Various menu items cannot be called (shown in gray) or the menus for the EPG and teletext modes of operation cannot be called	"Simplified operation" activated in the main information.	Deactivate "Simple control" in the Main Information, press the i-key, select "Select control level" and call up with OK . Set "Simple control" to "no".
Record and Timer are not displayed in the video menu	No VCR or DVD recorder logged in and no digital recorder installed	Log in VCR in the TV menu - Connections.
"Connections" cannot be called in the Video menu (shown in gray)	a) A timer recording is in progress (not with serial timer recording) b) You are recording from the TV set with the video bar	a) Wait until the timer recording has ended or clear the timer. b) Stop recording.
In the TV menu, the menu item "Programs" is missing and in the Main Information the item "Automatic channel search" and connections	The child lock is activated. If these menus were accessible, children could still set the programs.	Deactivate program-related child lock: Switch off child lock or enter PIN in the TV menu - Settings.
Control of the Loewe VCR with the video control bar and the timer does not work or does not work properly	a) The VCR's Digital Link function is not activated or not possible b) Euro-AV cable not connected c) Video recorder not logged in	a) Activate Digital Link in the VCR (see operating instructions of the VCR) b) Connect the Euro-AV cable c) Log in the VCR
General problems with connecting external devices through an AV input	a) The device is not logged in in the "Connections" menu or is connected differently to shown in the connection diagram b) The AV norm is set incorrectly c) The AV signal is set incorrectly	a) Compare the connection diagram with the actual installation in the "Main information" under "Connections" and connect as shown if necessary. b) Set the correct norm. c) Set the correct AV signal. If "Automatic" is set for AV norm or AV signal, this can lead to wrong detection in the case of non-standardized signals. In this case the norm and signal must be set according to the operating instructions of the external device.

What to do when ...

Problem	Possible cause	Remedy
Connection of a decoder does not work or does not work properly	a) The signal is not decoded because the correct decoder programs have not been selected in the TV menu - Connections b) The sound is missing in decoder mode because the wrong decoder sound is allocated in the TV menu - Connections	a) Follow the instructions in the TV menu - Connections again and select the appropriate decoder programs. b) Follow the instructions in the TV menu - Connections again and select the right sound source (decoder, TV or Autom.), see instructions of the decoder.
No sound through the TV loudspeakers	The item "Sound from..." in the Sound menu under "Sound" is not set to "TV"	Change the setting to "TV".
All menus appear in the wrong language	The wrong menu language has been set.	Set your menu language: 1. Switch off picture-in-picture (PIP) and switch off all on-screen displays (END button) 2. Call the TV menu (MENU button) 3. Select the last menu item and press OK 4. Select the last menu item on the last page and press the OK button 5. Now select the right language and.... 6. ... confirm with OK .
Digital Link Plus does not work	a) The VCR has not been logged in as a Digital Link Plus device or has been connected to the wrong socket b) The Euro-AV cable is not fully wired (Pin 10 not wired) c) Some video recorders can only take over the stations from the TV in initial installation d) All or some terrestrial or cable stations are stored at station slots ≥ 99	a) Log in the Digital Link Plus VCR under "Connections" and connect according to the diagram. b) Change the Euro-AV cable c) Reinstate the original state (ex-factory) of the VCR (see operating instructions of the VCR) d) Sort the terrestrial and cable stations so that they are between 1 and 99.
Various characters are displayed incorrectly in teletext	The wrong character set is set in the teletext menu	Set the right character set: Teletext menu - Settings - Character set - Standard or the appropriate character set.

Technical data

Mechanical data

Articos 55 HD	article number 63403
Dimensions (cm)	136.9 x 103.5 x 52 (W x H x D)
Weight (kg)	76.5
Technology	1-Panel DLP Optical System made by Carl Zeiss
Picture format	16 : 9
Visible screen diagonal	140 cm
Pixel format	1280 x 720 progressive
Relative humidity	20 ... 80%
	No condensation
Ambient temperature	0° - 40° Celsius
Air pressure	800 ... 1114 hPa (0 ... 3000 m above sea level)
Chassis designation	R 2550
Digital Light Processing TM Technology	
Projection lamp	120 Watt long life
Power supply	120 V to 240 V / 50-60Hz
Power consumption	190 Watt
Standby	< 3 Watt
Full Digital AMD / DNC adjustable	
Tuner VHF/UHF/ cable(Hyperband 8 MHz)	42 MHz to 860 MHz
Station memory	220
with DVB decoder	1470
TV standards	PAL-B/G, PAL-D/K, PAL-I, PAL-L PAL M/N, PAL 60 Secam B/G, D/K, L NTSC / NTSCV
Teletext	Hi-Text (Level 2.5)
Audio standards	mono/stereo/2-sound Nicom B/G, L, I
Audio rated output	2 x 20 Watt / 4 Ohm
Audio music output	2 x 40 Watt / 4 Ohm
2 enclosed speakers	
Treble	Ø 50 mm cone
Bass	Ø 104 mm

Terminals (left side of housing)	
Mini-DIN S-Video-In (AVS)	S-VHS / Hi 8 / VHS / 8 mm
Cinch Video-In (AVS)	VHS / 8 mm
Cinch Audio In	L / R
Headphones jack	6.3mm 32 - 200 Ohm
Terminals (rear)	
IEC socket 75 Ohm	antenna / cable/PIP
EURO-AV 1:	
Video IN	Y/C (S-VHS / Hi 8) FBAS (VHS / 8 mm)
Video OUT	Y/C (S-VHS / Hi 8) FBAS (VHS / 8 mm)
Audio IN/OUT	L / R
EURO-AV 2:	
Video IN	Y/C (SVHS / Hi 8) FBAS (VHS / 8 mm) RGB
Video OUT	Y/C (SVHS / Hi 8) (only on S-VHS Link Plus) FBAS (VHS / 8 mm)
Audio IN/OUT	L / R
EURO-AV 3:	
Video IN	Y/C (S-VHS / Hi 8) FBAS (VHS / 8 mm) RGB/YUV
Video OUT	FBAS
Audio IN	L / R
Component IN:	
Cinch	Y-signal
Cinch	Cr/Pr-signal
Cinch	Cb/Pb-signal
2xCinch	L / R AUDIO OUT
2xCinch	L / R AUDIO IN 1
Jack 3.5mm	AUDIO IN 2
2xCinch	L / R AUDIO IN 3

Cinch input socket IN 1	Digital-Audio
Cinch-input socket IN 2	Digital-Audio
Cinch-output socket OUT	Digital-Audio
SYSTEM socket, 9-pin	AUDIO
Infrared link	jack 3.5 mm
RC5/RC6	jack 2.5 mm
Service socket	8-pin
Connection DVI	Digital-Input
Input-VGA	via DVI-socket with Optional adapter
Socket CTRL	for rotary stand control

Available accessories

Upgrade kits

Digital-TV upgrade kit 2 Twin-Sat CI (P) (suitable for Premiere)
for digital and analog satellite reception with maximum comfort in operation and latest technology which are totally integrated in the TV.

OnlinePlus upgrade kit
Fully integratable module for comfortable use of Internet, E-mail etc. with the TV.

Sound-System Concertos Concertos 2
Exclusive 5.1 Digital-Surround Sound System. The center channel is reproduced by the integrated loudspeakers of the Articos 55 HD.

Certos
DVD/CD player with radio and Dolby Digital/dts-decoder in unusual design.

Dolby Digital (AC3)
For decoding audio signals from the DVD player, TV set or other audio equipment to a 5.1 playback with active speakers.

Wireless Home Automation
For controlling the house lighting circuit, shutters etc.

Accessories

Loewe remote control RC1
This remote control operates almost all Loewe equipment of past and present generations and also has an infrared database for operating equipment from other manufacturers.


Racks

Articos Rack 1
Mechanically rotatable rack system with two adjustable video shelves for video recorders or DVD players.

System Cube 1/2
Rack system with motor unit for rotating the TV and shelves for VCR, DVD player etc. (in connection with the Articos 55 HD Cube Adapter).

Articos 55 HD Cube Adapter
Adapter for mounting the set on the System Cube 1/2 rack systems.

Articos 55 HD motorized table stand
Motorized rotary table stand which can be remote controlled

 The code number 3001 cancels out a secret code and with it the child lock. Please keep it in a safe place.

Service Adressen/addresses/adresses/indirizzi/direcciones/adresy

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Tel. 43 59 77 77
Fax 43 59 77 00

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Fax 91-329 16 75

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Codelist

Loewe										Cybercom				0774				H&B				0818 0713							
DEV1		4 - 1451								CyberHome				0714 0816				Hanseatic				0741							
DEV2		4 - 1451								Cytron				0716 0651 0705				Harman/Kardon				0702							
DVD		1 - 0539								Daewoo				0770 0705 0832 0833 0714				HCM				0788							
STB		3 - 1127								Daewoo International								HDT				0705							
VCR		2 - 0866								Dalton								HE				0730							
DVD (Typ 1)										Dansai				0770 0747 0783				Henß				0713							
										Dantax								0723				Himage				0825 0518			
3DLAB		0539								DEC				0699 0818				Hitachi				0664 0665 0573							
A-Trend		0714								Decca								Hiteker				0672							
Acoustic Solutions		0730								Denon				0490 0634				Hoher				0774							
AEG		0788 0770								Denver				0699 0788				Home Electronics				0730							
Afreedy		0698								Denzel								Hoyo				0743							
Aiwa		0641 0695								Diamond				0651 0768 0723				Hyundai				0783							
Akai		0790 0788 0766 0690 0716 0713								Digihome								Ingelen				0788							
										digiRED								ISP				0695							
										0705																			
AKI		0718 0780								Digitrex				0672 0795				JBL				0702							
Akira		0699								DiK								Jeken				0699							
Alba		0717 0699 0713 0723 0695								Dinamic								Jindian				0799							
All-Tel		0790 0712								DiViDo								JMB				0695							
Amitech		0770								DK digital								Jocel				0780							
Amoisonic		0764								DMTECH								JVC				0623 0558 0539 0503 1901							
Amstrad		0713								Dragon								Karcher				0783							
Ansonic		0774 0759								Dual				0665 0651 0713 0730 0783 0790				Kendo				0699							
Apex Digital		0672 0799																Kenwood				0534 0490 0737							
Audiosonic		0690								DVX								Kiiro				0718 0770 0780							
Auvio		0843								E-Boda								King DHome				0799							
AWA		0730								Eclipse								Kiss				0665							
Black Diamond		0766 0713								Elin								Koda				0818							
Blaupunkt		0717								Elta				0690 0770 0788 0790				Konka				0711							
Blue Sky		0699 0695 0713 0672 0843								Eltax								Koss				0651							
Boman		0783								Emerson				0591 0705				Labway				0709 0531							
Brain Wave		0770								Encore								Lasonic				0743							
Brandt		0651								Enzer				0665 0701				Lawson				0705 0716 0768							
Bush		0699 0690 0689 0717 0713 0516								Ferguson								Lecson				0696 0747							
										0811 0774 0818 0695 0723				Finlux				0741 0770 0783				Lenco				0699 0774 0651 0770 0818			
										0768																			
C-Tech		0768								Firstline								Lenoxx				0819 0690							
Cambridge Audio		0696								Funai								Lexia				0699							
Cambridge Soundworks		0696								GE								LG				0591 0741							
CAT		0699 0786 0789 0787								Global Solutions								Lifetec				0651 0774							
Celestial		0672								Global Sphere								Limit				0716 0768							
Centrex		0672								Go Video								Loewe				0539 0511							
Centrum		0713 0789								GoldStar				0591 0741				LogicLab				0768							
cineULTRA		0699								Goodmans				0651 0790 0690 0783 0723				Logix				0705 0783							
Classic		0730																Lumatron				0705							
Clatronic		0788								Graetz								Luxman				0573							
Clayton		0713								Grandin								Magnavox				0503 0818							
Coby		0730								Grundig				0539 0695 0651 0775 0705 0790				Magnex				0723							
Conia		0672												0701 0713 0670 0723				Manhattan				0705							
Crown		0770 0769 0651 0690								Grunkel								Marantz				0539							

Matsui	0651	0695	Prosonic	0699	SVA	0672
Maxim		0825	Provision	0699	Synn	0768
MBO	0690	0730	Radionette	0741	Tatung	0770 0771
MDS		0699	Raite	0665	Teac	0717 0741 0571 0516 0692 0591
Mediencom		0746	Rank Arena	0780 0718		0768 0759 0790
Medion	0651 0774 0783	0716	RCA	0769 0651	Technics	0490 1908 1910
Memorex		0774	REC	0689 0766 0490 0746	Technika	0770
Metz	0571 0525	0713	Red Star	0759 0748 0763 0770 0788	Techwood	0713
MiCO		0723	Reoc	0768 0752	Tensai	0690 0651
Microboss		0718	Revoy	0699	TerraTec	0825
Micromaxx		0695	Roadstar	0699 0690 0689 0713 0818	Tevion	0651 0768
Micromedia	0503	0539	Rotel	0623 0558	Theta Digital	0571
Micromega		0539	Rowa	0759	Thomson	0551
Microstar		0774	Saba	0651 0769	Tokai	0665 0698 0788
Minato		0752	Sabaki	0768	Tokaido	0698
Minax		0713	Saivod	0759	Tokiwa	0705 0716
Minoka		0770	Salora	0741	Tongtel	0764
Minowa		0712	Sampo	0698 0752	Toshiba	0503
Mitsubishi	0713	0521	Samsung	0573 0744 0490	Tredex	0799
Monyka		0665	Sansui	0695 0716 0768 0723 0770	Umax	0531 0690
Mustek		0730	Sanyo	0670 0695 0790	United	0788 0730 0790
Mx Onda	0651	0723	Scan	0705	Universum	0741 0713 0591
NAD	0741	0692	ScanMagic	0730	Venturer	0790
Naiko		0770	Schaub Lorenz	0788 0770	Vieta	0705
Neufunk		0665	Schneider	0651 0783 0705 0790 0788	Voxson	0774 0730
Nordmende		0774	Schwaiger	0752	Walkvision	0717
Noriko		0752	Scientific Labs	0768	Welkin	0774
NU-TEC		0516	Scott	0718 0780 0651 0672	Wesder	0699
Okano		0752	SEG	0665 0713 0768	Wharfedale	0686 0696 0698 0723 0752
Omni	0698 0746 0690	0699	Shanghai	0672	Windy Sam	0573
Onkyo	0627 0503 0612	1612	Sharp	0630 0752 0695	XLogic	0770 0768
Optim		0747	Sherwood	0717 0741 0633	XMS	0788 0689
Optimus	0571	0525	Shinco	0717	Xoro	0806
Orion		0695	Silva	0788	Xwave	0709 0531
Oritron		0651	SilvaSchneider	0774	Yamaha	0490 0539 0646
P&B		0818	Singer	0690 0716 0723	Yamakawa	0665 0710 0765
Pacific	0768 0790 0759 0774	0713	Skymaster	0730 0768	Yelo	0718 0780
Palladium		0695	Skyworth	0766	Yukai	0730
Palsonic		0689 0672	Slim Art	0770	Zenith	0503 0591 0741
Panasonic	0490 1908	1910	SM Electronic	0730 0768 0690	VCR (Typ 2)	
Panda		0783	Smart	0718 0705 0713	Accuphase	0637
Philips	0539 0646	0503	SMC	0811	Adyson	0072
Phonotrend		0699	Sonashi	0716	Aiwa	0307 0000 0348 0352 0037 0041
Pioneer	0571 0525	0631	Sony	0533 1533 0573 1903 1904	Akai	0106 0315 0041 0020 0352 0240
Pointer		0770	Soundmaster	0768	Akiba	0072
Powerpoint	0780	0718	Soundwave	0783	Akura	0072 0041
Prima		0766	Standard	0651 0768	Alba	0278 0072 0352 0020 0000 0315
Prima Electronic		0766	Starmedia	0818		0348 0081
Proline	0651 0686 0672	0790	Sunwood	0788		
			Supervision	0730 0768		

Allorgan					0240	Dual		0041	0081	0278	0000	Hischito						0045	
Allstar				0322	0081	Dumont		0000	0081	0104	0105	Hitachi	0042	0166	0105	0041	0000	0240	
Ambassador					0020	Elbe				0278	0038					0081	0104	0384	
Amstrad		0000	0278		0072	Elcatech					0072	Hornyphone						0081	
Anitech			0072		0322	Elin					0240	Hypson				0072	0278	0352	
Ansonic					0000	Elsay					0072	Impego						0020	
Aristona					0081	Elta				0072	0278	Imperial				0000		0240	
ASA			0037		0081	Emerson			0072	0045	0000	Ingersoll						0240	
Asuka	0072	0037	0081	0000	0038	ESC			0278	0240	0020	Inno Hit		0020	0240	0278	0322	0072	
Audiosonic					0278	Etzuko					0072	Interbuy					0037	0072	
Audioton					0020	Europhon					0020	Interfunk					0081	0104	
AVP				0352	0000	Fenner					0020	Internal					0278	0637	
AWA		0037	0278	0642	0043	Ferguson	0041	0320	0321	0493	0000	International					0278	0037	
Baird	0106	0278	0104	0041	0000	Fidelity				0000	0072	Intervision		0000	0278	0037	0348		
Bang & Olufsen					0499	Finlandia	0104	0081	0042	0166	0000	Irradio				0072	0037	0081	
Basic Line		0278	0020		0072						0384	ITT	0106	0041	0046	0344	0384	0104	0240
Bestar			0278		0020	Finlux		0000	0081	0104	0042	ITT Nokia						0048	
Black Diamond			0642		0278	Firstline	0072	0348	0043	0037	0045	ITV				0278	0037	0020	
Black Panther					0278						0278	JMB						0352	
Blaupunkt 1562	0226	0162	1162	0081	0006	Fisher		0047	0104	0046	0038	Joyce						0000	
				0195	0034	Frontech				0020	0322	JVC			0041	0067	0008	0384	
Blue Sky	0037	0348	0072	0352	0278	Fujitsu					0000	Kaisui						0072	
Bondstec					0020	Funai					0000	Karcher						0278	
Brandt		0041	0320	0321	0493	Galaxi					0000	Kendo		0106	0315	0348	0072	0037	
Brandt Electronique					0041	Galaxis					0278	Kenwood				0041	0038	0046	
Brinkmann					0348	GBC					0020	KIC						0000	
Brionvega					0344	GE					0320	Kimari						0047	
Bush	0072	0278	0315	0352	0000	GEC					0081	Kneissel				0352	0348	0037	
					0081	General					0020	Kolster						0348	
Carena					0081	General Technic					0348	Korpel						0072	
Carrefour					0045	Genexxa					0104	Kuba						0047	
Casio					0000	Goldhand					0072	Kuba Electronic						0047	
Cathay					0278	GoldStar					0037	Kuwa					0226	1162	
Catron					0020	Goodmans		0000	0072	0240	0278	Kyoto						0072	
CGE			0041		0000		0020	0081	0348	0637	0352	Lenco						0278	
Cimline					0072	Graetz				0041	0104	Leyco						0072	
Clatronic		0020	0072		0000	Granada	0104	0046	0048	0081	0006	LG				0037	0000	0278	
Combitech					0352			0037	0226	0042	1162	Lifetec						0348	
Condor				0020	0278	Grandin		0072	0037	0020	0000	Loewe	0081	1562	1162	0162	0226	0866	
Crown		0278	0072	0020	0322	Grundig	0007	0195	0081	0347	0349					0006	0037	0105	0080
Cyrus					0081			0006	0320	0348	0072	Logik					0240	0072	0106
Daewoo	0278	0642	0637	0348	0352	Haaz					0348	Lumatron						0278	
					0020	Hanimex					0352	Luxor	0106	0046	0043	0072	0104	0047	
Dansai				0072	0278	Hanseatic			0037	0278	0081							0048	
Daytron					0278	Hantor					0020	Magnavox						0081	
de Graaf	0042	0166	0081	0104	0048	Harwood					0072	Manesth				0072	0045	0081	
Decca	0000	0041	0081	0008	0067	HCM					0072	Marantz		0080	0081	0038	0006	0146	
Deitron					0278	Hinari		0072	0352	0041	0322	Mark					0278	0020	
Denko					0072						0240	Marquant						0322	
Diamant					0037	Hisawa					0352	Matsui		0348	0037	0240	0352	0000	

Mediator						0081	Profitronic				0081	0240	Sinudyne			0004	0081
Medion						0348 0352	Proline				0000	0320 0321	Smaragd				0348
Melectronic						0000 0037 0038	Proscos					0278	Solavox				0020
Memorex	0104	0000	0046	0037	0048	0047	Prosonic				0278	0000	Sonitron				0047
Memphis						0072	Protech					0081	Sonneclair				0072
Metz	1562	0195	0347	1162	0081	0162	Provision					0278	Sonoko				0278
						0226 0006 0037	Pye					0081	Sonolor			0048	0046
Micormay						0348	Quasar					0278	Sontec			0037	0278
Migros						0000	Quelle			0006	0081	0344 0080	Sony	0033	0034	0032	0106 1032
Minerva						0195 0006	Radialva			0037	0072	0081 0048	Soundwave			0037	0348
Mitsubishi						0043 0067 0081	Radiola					0081	Ssangyong				0072
Multitec						0037	Rank					0041	Standard				0278
Multitech	0000	0072	0020	0104		0322	Reoc				0348	0637 0278	Starlite			0037	0104
Murphy						0000	Rex					0041 0384	Stern				0278
Myryad						0081	RFT					0020 0072	Sunkai			0348	0278
NAD						0104	Roadstar			0240	0072	0037 0278	Sunstar				0000
National						1562 1162 0226 0162	Royal					0322 0072	Suntronic				0000
NEC	0041	0038	0067	0104		0037	Saba	0041	0320	0321		0384 0494	Sunwood				0072
Neckermann						0041 0006 0081 0344						0278	Supra			0037	0240
Nesco						0072 0000 0352	Saisho					0348	Symphonic			0000	0072
Nikkai						0020 0072 0278	Salora			0046	0043	0106 0104	T+A			1162	0226 0162
Nokia	0104	0106	0315	0041	0278	0046	Samsung					0240 0432	Taisho				0004
						0344 0240 0048 0042 0081	Samurai					0020	Tandberg				0278
Nordmende						0041 0384 0320 0321	Sansui	0041	0067	0106	0072	0322 0348	Tashiko			0000	0048 0240 0081 0037
						0494 0067 0493	Sanyo			0104	0046	0047 0048 0067	Tatung	0000	0041	0081	0048 0043 0348
NU-TEC						0348	Saville					0352 0278 0240					0352
Oceanic	0000	0048	0106	0081	0104	0041	SBR					0081 0146 0080	Teac	0072	0041	0000	0278 0642 0037
						0046	Scan Sonic					0240					0081 0307
Okano						0315 0348 0072 0322 0278	Schaub Lorenz	0041	0344	0104	0000	0106	TEC			0020	0278 0072
Orbit						0072						0315	Tech Line				0072
Orion						0352 0348	Schneider	0072	0000	0037	0081	0278 0240	TechniSat				0348
Orson						0000						0146 0042	Teleavia			0041	0187 0493
Osaki						0000 0037 0072	Seaway					0278	Telefunken	0187	0041	0320	0321 0384
Osume						0072	SEG	0072	0240	0322	0278	0642 0081				0493 0494	0530 0278
Otto Versand						0081 0080	SEI					0081	Teletech			0322	0072 0278 0000
Palladium						0072 0315 0037 0041 0006	Sei-Sinudyne					0081	Tempest				0020
						0240 0348 0432	Seleco			0041	0008	0384 0020 0037	Tenosal				0072
Palsonic						0072 0000	Sentra					0072 0020	Tensai	0000	0322	0037	0072 0004
Panasonic	1562	1162	0162	0226		0836	Setron					0072	Tevion				0348
Pathe Cinema						0004 0043	Sharp					0048 0037 0569	Thomson	0320	0722	0321	0041 0067 0384
Pathe Marconi						0041	Shintom					0072 0104					0493 0494 0278
Perdio						0000	Shivaki					0037	Thorn			0041	0104 0037
Philco						0038 0072	Siemens	0195	0006	0037	0104	0007 0081	Thorn-Ferguson				0320
Philips	0081	0146	0006	0384		0080						0146 0320 0347	Tokai			0072	0037 0041 0104
Phonola						0081 0080	Siera					0081	Tokiwa				0072
Pioneer						0067 0081 0042	Silva					0037	Topline				0348
Portland						0020 0278 0637	Silver					0278	Toshiba	0045	0041	0384	0043 0081
Prinz						0000	Singer					0045	Towada				0322 0072
Profex						0322							Tracton				0020
													Trakton				0020

Tredex					0278	Cherokee				0123	1323	Goldvision							1017
TVA					0020	Chess					1085	Gooding							0571
Uher		0037	0240		0344	CityCom		1176	0115	0283	0299	Grundig		0173	0847	1150	0571		0139
Ultravox				0344	0278	Clark					0811		0750	0805	0879	0885	0853		0501
Unitech					0240	Conrad		0573	0115		0501	Hanseatic					1099		1100
United Quick Star					0278	Cyrus					0200	HDT							1011
Universum	0000	0081	0240	0037	0106	D-box		1127	1114		0873	Hirschmann		0882	1113	1111	0173		0573
	0348	0195	0006	0322	0104	Daewoo					1201						1085	0299	0501
Victor				0008	0067	Delfa					0863	HTS							0775
VideoPro					0020	Deltasat					1075	Humax			1176	0283	0863		1048
Watson		0081	0352		0278	Digenius				0299	1161	Huth				1143	1017		1075
Weltblick					0037	Digipro					1105	Hyundai				1011	1159		1075
Wharfedale					0615	DigiQuest				1164	0863	ID Digital				1176	0283		0863
White Westinghouse					0344	DigiSat					0585	Ingelen							0882
Yamaha					0041	Distratel				0885	1205	Interstar				1105	1017		1214
Yamishi				0072	0278	Distrisat					0200	Invideo							0871
Yokan					0072	DMT					1075	Italtel							0871
Yoko		0037	0072	0020	0240	DNT					0200	ITT Nokia					0573		0873
Zenith					0637	Echostar	0610	1169	0871	0167	0853	JVC							0571
								1200	0775	0511	0453	KaTelco							1111
SAT (STB – Typ 3)						Einhell					0501	Kathrein	0658	0249	1057	1058	0173		1221
ABsat		0832	0123		1323	Elap				1129	0587				0200	0123	0115		1323
ADB					0642	Elta					0200	Kathrein Eurostar							0115
Adcom					0200	Emme Esse					0871	Kreiling					0658		0249
Akai					0200	eMTech					1214	Kreiselmeier							0173
Allsat			0200		1017	Engel				1017	1103	LaSAT					0115		0299
Alpha					0200	Eurieult				0885	0882	Lenco							0115
Amstrad	0847	0882	0885	0863	0501	Europa		0863	0501		0200	Lenson							0501
					1113	Europhon					0299	Lexus							0200
AntSat					1017	Eurosky		0299	0115		0501	LG							1075
Arcon					1205	Eurostar				1121	0115	Lifesat							0299
Armstrong					0200	Fidelity					0501	Lifetec							0587
Asat					0200	Finlux					0573	Logix					1017		1075
AssCom					0853	Force		1194	1101		0179	Lorenzen					0299		1161
Aston			1129	0142	1261	Fortec Star				1017	1083	Luxor			0573	0873			0501
Astrastar					0548	Foxtel		0879	1176		0283	Macab							0179
Astro	0133	0173	0501	0658	0548	Fraba					0585	Manhattan				1083			1017
		1099	1100	0200	0292	Fraba Sat					0585	Marantz							0200
Atlanta					0871	Fracarro					0871	Mascom							0811
Aurora					0879	Freecom				0501	0173	Maspro			0750	0173			0571
Austar	0863	0642	0879	0283	1176	Freesat				0882	0587	Matsui					0571		0173
Axis					1111	FTEmaximal			0811	1121	0863	Mediabox				0292			0853
Bentley Walker					1017	Fuba	0173	0573	0115	1161	0299	Mediacom							1206
Blaupunkt					0173	Fugionkyo					1105	MediaSat			0501	0292			0853
Blue Sky					0885	Galaxis	1111	1101	0863	0283	1176	MediaStar							1173
Boca					0240					0115	0270	Medion							0299
BskyB		0847			1175	Garnet					1075	Mega							0200
Cambridge				0501	0179	GbSAT					1214	Metronic			1216	0885	1210		1205
Canal Satellite					0853	GOD Digital					0200	Metz							0173
Canal+					0853	Goldbox				0292	0853	Micro							0501

